IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Examining Operations

Applicant: Johnson, S.

Serial No: 08/290,592

Art Unit: 1806

Filed:

August 15, 1994

Examiner: Krikorian, J.

Title:

Human-Murine Chimeric Antibodies Against Respiratory Syncitial Virus

Assistant Commissioner for Patents Washington, D.C. 20231

Declaration of Leslie S. Johnson Under 37 CFR 1.131

Dear Sir:

- 1. I, Leslie S. Johnson Ph.D., citizen of the United States of America, and residing at 13545 Ambassador Drive, Gewrmantown, PA 20874; state and declare that upon infromation and belief that I am the inventor of the invention described and claimed in U.S. Serial No. 08/290,592, entitled "Human-Murine Chimeric Antibodies Against Respiratory Syncitial Virus".
- 2. This Declaration is submitted to establish conception of the invetion in this application prior to March 1991, which is the effective date of Tempest *et al.*, cited by the Examiner and to establish reasonable diligence from a date prior to the effective date until Applicant's actual reduction to practice.
- 3. Attached hereto is Exhibit 1 which establishes a fully formed conception of the invention. It is an SBIR grant application(assignment number 1R43AI30300-01A1) which was submitted and receipt by the National Institutes of Health prior to March 1991. See particularly the bottom half of page 10 and the Experimental Design and Methods section at pages 14-18.

4. Attached hereto are Exhibits 2-4 which establish diligence in the completion of the invention from a time prior to the effective date of Tempest *et al.* continuously up to the date of the actual reduction to practice of the invention, by production of the humanized-mouse chimeric antibody. These documents are as follows:

Exhibit 2:

These notebook pages document work performed by Ms. Lisa Bennett on the cloning and manipulation of the murine anti-RSV MAb 1129 in preparation for humanization.

Specifically detailed are the PCR amplification of the 1129 heavy and light variable regions, the insertion of these PCR fragments into plasmid vectors and the DNA sequencing of the resultant inserts. This work was particularly important because she confirmed the existence of additional variable region sequences from the parental myeloma cell line used to make the 1129 hybridoma. These pages document the construction of a single-chain Fv form of the molecule. The variable regions were then combined with the appropriate human constant region gene segment for eventual comparison to hu1129. Also the pages document the construction of a vector for the in-frame insertion of synthetic humanized V-region gene segments.

Exhibit 3:

These notebook pages documents work done by Mr. David Pfarr on the construction and evaluation of a eukaryotic expression vector capable of the expression of humanized anti-RSV MAb's. The vector needed to be capable of both transient and stable expression and to facilitate expression of heavy and light chain genes either by co-transfection or from the same plasmid; both under the control of a strong enhance/promoter.

Exhibit 4:

These pages document the expression and assay of humanized anti-RSV MAb hu1308F. Particularly they document the ability of hu1308F to bind to and thus immuno-precipitate radioactively labeled RSV F-protein expressed from a vaccinia virus construct. In addition they detail the transient expression of hu1129 and the generation of stable cell lines expressing hu1308F and hu1129.

- 5. This Declaration is submitted prior to final rejection.
- 6. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereupon.

5/16/96 Date

Leslie S. Johnson, Ph.D.

FIRST CLASS CERTIFICATE

I hereby certify that this correspondence is being deposited today with the U.S. Postal Service as First Class Mail in an envelope addressed to:

Assistant Commissioner for Patents Washington, DC 20231

Charles I Herron Fea

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Respectfully submitted,

Charles J. Herron, Esq.

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PRINCIPAL INVESTIGATOR: JOHNSON, LESTIR S

TITLE: BUMAR-MURINZ CRIMERIC ANTIRODIES AGAINST RESPIRATORY SYN
ASSIGNMENT NUMBER: 18434130300-0141 IRG: SSS 4

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SEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE

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TLE OF APPLICATION (Do not exceed 56 typewriter spaces) Human-Murine Chimeric Antibodies Against Respiratory Syncytial Virus

I. SBIR SOLICITATION NO. PHS 90-2

a. NAME (Last, first, middle)	CIPAL INVESTIGATOR
Johnson, Leslie Sydnor	— New Investigator
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,	19 Firstfield Road
e. TELEPHONE (Area code, number and extension)	Gaithersburg, MD 20878
(301) 590-2622	20078
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XTIO TYES CREATER OR	STEBRATE ANIMALS
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DATES OF PROJECT PERIOD	
	COSTS REQUESTED
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PERFORMANCE SITES (Organizations and addresses)	3 APPLICANT ORGANIZATION
Molecular Vaccines, Inc.	APPLICANT ORGANIZATION (Name, address, and congressional district)
19 Firstfield Road	Molecular Vaccines, Inc.
Gaithersburg, MD 20878	19 Firstfield Road
	Gaithersburg, MD 20878
	20076
	6th Congressional District
	O. ENTITY IDENTIFICATION NUMBER
	<u> </u>
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NOTICE OF PROPRIETARY INFORMATION	

The information identified by asterisks (*) on pages. tutes trade secrets or information that is commercial or financial and confidential or privileged. It is furnished to the Government in confidence with the understanding that such information shall be used or disclosed only for evaluation of this application; provided that. if a grant is awarded as a result of or in connection with the submission of this application, the Government shall have the right to use or disclose the information herein to the extent provided by law. This restriction does not limit the Government's right to use the information to the extent provided by law. 13. DISCLOSURE PERMISSION STATEMENT

if this application does not result in an award, is the Government permitted to disclose the title only of your proposed project, and the name, address and telephone number of the corporate official of your firm, to organizations that may be interested in contacting you for further information or possible investment?

XYES INO

14. CORPORATE OFFICIAL

(Name, title, address and telephone number)

Dr. James F. Young

Vice President, Research & Development Molecular Vaccines, Inc.

19 Firstfield Road

Gaithersburg, MD 20878 Tel: (301) 590-2622

SIGNATURE OF PERSON NAMED IN 3a (In ink, "P r" signature not acceptable)

DATE

15. PRINCIPAL INVESTIGATOR ASSURANCE:

agree to accept responsibility for the scientific conduct of the project and t provide the required progress reports if a grant is awarded as a result of this application. Willful provision of false information is a criminal offense (U.S. Code, Title 18, Section 1001).

16. CERTIFICATION AND ACCEPTANCE: I certify that the statements send complete to the best of my knowledge, and gation to comply with Public Health Service terms NEW a grant to awarded as the result of this applicaand conduction ertification is a criminal offense (U.S. Code, DOR. A WILL Title 18. Section 1001).

SIGNATURE OF PERSON NAMED IN 14. (In Ink. "Per" signature not acceptable)

DATE

RESEARCH PLAN

A. Specific Aims

Murine monoclonal antibodies against the F glycoprotein of RSV have been developed and characterized. These have been shown to neutralize RSV in vitro and protect cotton rats from lower respiratory tract infection in vivo. Previous studies with other rodent antibodies suggest that the development of human anti-mouse antibody responses would preclude the use of these murine antibodies directly in children. Therefore, it is the objective of this Phase I study to develop humanized versions of these anti-RSV antibodies which could then be used for passive immunization against RSV infection.

The specific objectives of Phase I work are as follows:

- 1. Clone and sequence the variable domains of the heavy and light chains from two selected murine anti-RSV monoclonal antibodies.
- 2. Substitute the coding regions for the complementarity determining regions from the murine cDNAs for the corresponding regions in human antibody heavy and light chain sequences.
- 3. Express the so constructed genes in mammalian cells and purify the humanized antibodies.
- 4. Characterize these antibodies with respect to:
 - a) antigen binding compared to the mouse parent
 - b) in vitro RSV neutralization, and
 - c) in vivo protection against RSV challenge in the cotton rat model

The successful completion of the studies described in this application will provide the basis for producing a product which could be tested in humans for prophylaxis against RSV infections in Phase II studies. It would also be prototypical for the development of humanized antibodies against other infectious agents and their use in treatment or prevention of illness.

B. Significance

Respiratory syncytial virus (RSV) is the most common cause of lower respiratory tract infection in young children. In the United Sates alone, approximately 90,000 children are hospitalized and 4,500 children die from RSV infection each year (1). At special risk of serious RSV morbidity and mortality are children with underlying diseases such as congenital heart disease, bronchopulmonary dysplasia (BPD) and other pulmonary diseases, various congenital or acquired immunodeficiency syndromes and prematurity (2-5). There are over 100,000 such high risk children in the United States.

Infants with congenital heart disease (CHD) have a high fatality rate from RSV infection. In a prospective study, MacDonald et al (2) compared the course of hospitalized infants with CHD with and without RSV infection; the 27 CHD infants with RSV infection had a higher mortality rate (37%) both than the 46 CHD infants without RSV infection (6.5%) (p<0.01) and than the 202 infants without CHD but with RSV infection (1.5%) (p<0.01). In RSV infected infants with bronchopulmonary dysplasia, a chronic lung disease occurring in approximately 20% of all preterm infants requiring mechanical ventilation at birth (6), Groothuis et al (3) demonstrated a high degree of morbidity. Sixteen of 30 BPD patients followed prospectively over one winter were infected with RSV; 11 of them required hospitalization (4 in the intensive care unit). Although no fatalities occurred in this study, RSV is recognized as a common cause of death in BPD patients (7). Infants born

prematurely are a third and numerically important risk group for RSV infection, particularly during their first 6 months of life. In a nine year prospective study at the University of Rochester (5), 30% of children hospitalized with RSV pneumonia or bronchiolitis had been born prematurely. It is clear that RSV infection can be fatal in such infants (7).

Although an antiviral drug, ribavirin, has recently been licensed for therapy of RSV pneumonia and bronchiolitis (8,9), its value is controversial (10). Unfortunately, RSV vaccines are unavailable and unlikely to be licensed in the near future (1). A major obstacle to vaccine development is safety; the initial formalin inactivated RSV vaccine caused an increased incidence of RSV lower respiratory tract disease and death in immunized children (11). Currently the most promising approach to prophylaxis of RSV disease in high risk infants is passive immunization (12).

Support for the potential utility of passive immunization derives from studies of immune globulin or monoclonal antibodies in the prevention of experimental RSV infection in cotton rats (12-14) and Aotus monkeys (12, 15). In these animal models, immune globulin or monoclonal antibody infused prior to viral challenge prevented lower respiratory infection and reduced nasal RSV titers by 50-fold. Similar studies showed that high-titered RSV immunoglobulin was effective therapy for RSV infections in these animal models (13, 15). Infected animals treated with RSV immune globulin, showed no evidence of pulmonary immune-complex disease (13, 15). A double-blind, placebo-controlled intravenenous immunoglobulin (IVIG) immunotherapy study was undertaken in 35 children hospitalized with RSV infection (16). Therapy was well tolerated and resulted in significant reductions in nasal RSV shedding and oxygenation in the treated infants. An NIAID sponsored multicenter Phase I safety trial of intravenous immune globulin given prophylactically to high risk infants was recently completed (17). Infusion of 10-15 ml/Kg of commercial lots of IVIG selected for high neutralizing antibody titer was generally well tolerated. RSV infection was detected in 9 of 21 patients, only one of whom had severe illness. Molecular Vaccines, Inc. ("MVI") is developing an RSV intravenous hyperimmune globulin for the prevention and treatment of RSV disease in high risk children. In collaboration with Massachusetts Public Health Biologic Laboratories, plasma from donors was screened by a virus microneutralization assay to identify those containing high titers of neutralizing antibody to RSV. These were then pooled and used to prepare a hyperimmune globulin which is currently being tested in a NIAID-sponsored multicenter Phase II efficacy trial for the prophylaxis of RSV lower respiratory tract infection in infants with serious heart and lung disease.

Even if RSV hyperimmune globulin is shown to reduce the incidence and severity of RSV lower respiratory tract infection in high risk children, several disadvantages may limit its use. One drawback is the necessity for intravenous infusion in these children who have limited venous access because of prior intensive therapy. A second disadvantage is the large volume of RSVIG required for protection, particularly since most these children have compromised cardiopulmonary function. A third disadvantage is that intravenous infusion necessitates monthly hospital visits during the RSV season which places these children at risk of nosocomial RSV infection (7). A final problem is that it may prove impossible to select sufficient donors to produce a hyperimmune globulin for RSV to meet the demand for this product. Currently only about 5% of normal donors have RSV neutralizing antibody titers high enough to qualify for the production of hyperimmune globulin.

One approach to circumventing a number of these problems may be to vaccinate adult volunteers with a live RSV vaccine to boost natural immunity in these individuals. This may then increase the number of individuals who have serum antibody titers high enough to be used to prepare a hyperimmune globulin, or to increase titers sufficiently high to prepare a product which could be used intramuscularly.

Another approach may be the development of monoclonal antibodies with high specific neutralizing activity as an alternative to hyperimmune globulin. The advantages of a monoclonal antibody approach are several, the most significant of which is that it would permit the production of a highly defined product with a standardized potency. Unlike an immunoglobulin product in which only a small fraction of the antibody is RSV-specific, a monoclonal antibody product would not contain any irrelevant antibody. Hence, the specific activity would be 50- to 100- fold higher than an immune globulin product and could potentially be used intramuscularly. In addition, if recombinant DNA methodology is used for production of the monoclonal antibody, it can be selectively engineered to provide the desired biological properties (Fc effector function, valency, pharmacokinetics, etc.) Monoclonal antibodies to other infectious agents for which these children are at risk (influenza and parainfluenza viruses) could also be combined to produce a "cocktail" and provide broader protection to these children. Since it is likely that repeated dosing of these monoclonal antibodies will be required during the high risk RSV season (November to March), it will be preferable, if not necessary, to use human monoclonal antibodies rather than murine or rat antibodies to minimize the development of human anti-rodent antibody responses which may compromise the therapeutic efficacy of the antibody or induce immune-complex pathology. However, the generation of human monoclonal antibodies with the desired specificity may be difficult and the level of production from human cell lines is often low, precluding their development.

An alternative is to produce human-mouse chimeric antibodies which contain the binding specificity of a pre-characterized murine antibody. A series of eighteen murine monoclonal antibodies against the RSV F glycoprotein have already been produced (18). They have been characterized with regard to their neutralizing potential, both to the parental RSV strains used to immunize the mice to generate the hybridomas, as well as a number of different virus strains isolated from 1956 to 1985 from various geographical locations. They have also been shown to provide protection in the cotton rat challenge model (Dr.Greg Prince, personal communication). In addition, these antibodies have been mapped by competitive binding and reactivity profiles of virus escape mutants to three broad antigenic sites (A, B and C) containing 16 epitopes. Epitopes within antigenic sites A and C show the least variability in natural isolates. MVI has obtained through Research Materials Transfer Agreements with Dr. Brian Murphy, National Institutes of Health and Dr. Larry Anderson, Centers for Disease Control, hybridomas producing eight of these murine monoclonal antibodies for further studies. These antibodies should were selected because they represented seven different epitopes, reacted with the highest number of virus strains tested (at least 13 out of 14 isolates) and retained the greatest neutralizing activity against virus escape mutants selected with the other antibodies. Table I summarizes the features of these eight antibodies.

Ch	aracteristics of m	Table I.	nol antibodica (2	1)
Monoclonal Antibody	Antigenic site	Epitope	Immuno- globulin subclass	# of RSV strains neutralized
1153	A	1	IgG ₁ k	13/14
1142	Α	1	IgG_1k	13/14
1129	Α	4	IgG ₁ k	13/14
1121	Α	5	IgG ₁ k	13/14
1243	С	11	IgG _{2A} k	13/14
1332H	С	12	IgG ₂ Ak	14/14
1308F	C	13	IgG ₁ k	14/14
1302A	C	14	IgG ₁ k	14/14

Protection Against RSV Proliferation, in vivo

We examined eight of these monoclonal antibodies, specific for the RSV F glycoprotein, for their ability to block RSV replication when administered to cotton rats by the intranasal route prior to virus challenge. These antibodies were selected because they represented seven different epitopes, reacted with the highest number of virus strains tested (at least 13 of 14 isolates) and retained the greatest neutralizing activity against virus escape mutants selected with the other antibodies. Table I summarizes the features of these eight antibodies.

Cotton rats (S. fulviventer, 3 animals per group, average weight 100 grams) were anesthetized with methoxyflurane and given 0.1 ml of antibody solution (10 mg/ml or 1 mg/ml in phosphate-buffered saline (PBS) by intranasal (i.n.) instillation. A pooled monoclonal antibody mixture of all eight monoclonal antibodies (10 mg/ml total, 1.25 mg/ml each or 1 mg/ml total, 0.125 mg/ml each) was tested. Control animals were given 0.1 ml of a bovine serum albumin suspension (10 mg/ml or 1mg/ml) in PBS or standard human immune globulin (Sandoglobulin, Sandoz, Inc., East Hanover, N.J.) in PBS (10 mg/ml or 1 mg/ml). One day later, animals were again anesthetized with methoxyflurane and challenged by i.n. instillation of 10^5 plaque forming units (PFU) of the Long strain of RSV. Four days after virus challenge, all animals were sacrificed by carbon dioxide asphyxiation. Lungs were harvested and homogenized in 10 parts (wt/vol) of Hanks balanced salt solution supplemented with 0.218 M sucrose, 4.4 mM glutamate, 3.8 mM KH2PO4 and 3.2 mM K2HPO4 and the resulting suspension was stored at -70°C until assayed for virus content. Virus titers were determined using a plaque assay on HEp-2 cell monolayers and are expressed as PFU per gram of tissue.

The results shown in figure 1 indicate that each of the monoclonal antibodies showed a significant reduction in pulmonary virus titer, and were at least as effective and in most cases more effective than the standard immune globulin or the pool of the eight monoclonal antibodies. Surprisingly, five of the eight monoclonal antibodies appear to completely prevent infection at the high dose and one even at the low dose.

The eight MAbs described above were further examined for their ability to block RSV replication when administered at lower doses to cotton rats by the intranasal route prior to virus challenge. Cotton rats (S. hispidus, 4 animals per group, average weight 100 grams) were anesthetized with methoxyflurane and given 0.1 ml of antibody solution (1 mg/ml, 0.1 mg/ml or 0.01 mg/ml in phosphate-buffered saline (PBS) by intranasal (i.n.) instillation. Control animals were given 0.1 ml of a bovine serum albumin suspension (1 mg/ml) in PBS. One day later, animals were again anesthetized with methoxyflurane and challenged by i.n. instillation of 10 5.0 plaque forming units (PFU) of the Long strain of RSV. Four days after virus challenge, all animals were sacrificed by carbon dioxide asphyxiation. Lungs were harvested and homogenized in 10 parts (wt/vol) of Hanks balanced salt solution supplemented with 0.218 M sucrose, 4.4 mM glutamate, 3.8 mM KH2PO4 and 3.2 mM K2HPO4 and the resulting suspension was stored at -70°C until assayed for virus content. Figure 4 shows that each of the monoclonal antibodies, except MAb 1243 showed a significant reduction in pulmonary virus titer when given at the 0.1 mg or 1 mg doses. MAb 1308 showed the best reduction among those to the C region of the F protein, while 1129 and 1121 were the best among those which bind to the A region.

Figure 1 Prophylaxis of RSV Infection in S. Fulviventer Using Anti-F Monocional Antibodies

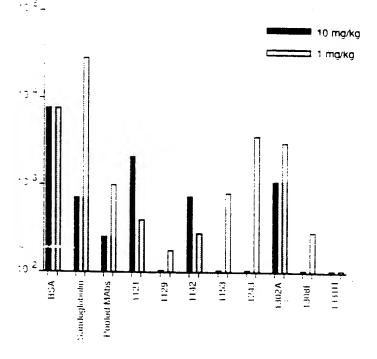


Figure 2 Prophylaxis of RSV Infection in S. Hispidus Using Anti-F Monocional Antib dies

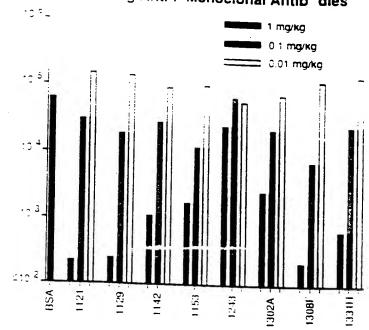


Figure 3

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Virus Titer (PFU/Gram)

RSV Neutralization in vitro

The eight monoclonal antibodies were also tested for their ability to neutralize virus in vitro. Neutralization was measured by a plaque-reduction assay. The data are presented in Table 2. All antibodies showed neutralizing activity at the high concentration (10 mg/ml) whereas three of the monoclonal antibodies (1243,1302A and 1331H) showed no activity at the lower concentration (1 mg/ml).

While there appears to be a correlatation between *in vitro* neutralizing activity and *in vivo* protection for the antibodies to the C region of the F protein, such a correlation is not apparent for those to the A region.

	Table II.	
Neutralization T	iters for Monoclonal	Antibodies
	10 mg/ml	1 mg/ml
BSA	<20	<20
Sandoglobulin	1360	200
Pooled MAbs	4100	300
1121	1340	120
1129	3540	240
1142	6140	420
1153	9940	700
1243	300	<20
1302A	480	<20
1308F	3540	440
1331H	1960	<20

Currently the murine antibodies are being further tested individually, and in pairwise combinations in the cotton rat for protective efficacy and potential synergy or competition. Two of these antibodies will then be selected, most probably one from antigenic site A and one from antigenic site C, to produce mouse-human chimeric antibodies. Although a number of laboratories have constructed chimeric antibodies with mouse variable and human constant domains (19-27), the mouse variable region may still be seen as foreign (28). Therefore, it is preferable to construct humanized antibodies in which only the hypervariable or complementarity determining regions (CDRs) of the heavy and light chains from the murine antibody of the desired specificity are transplanted onto the framework of a human antibody (28-30). These antibodies retain the binding capacity and affinity of the murine monoclonal antibody. Since the CDRs do not contain characteristic rodent or human motifs, these humanized antibodies should be indistinguishable in sequence from completely human antibodies thus minimizing human antibody responses. Once the humanized antibodies have been produced and characterized in these Phase I studies, Phase II studies would be initiated to examine the protective efficacy of these molecules in clinical studies.

Cloning and Analysis of V-region cDNA's

On the basis of the above data, we selected the antibodies 1308F, specific for the C region of the RSV F protein, and 1129, specific for the A region as the initial targets for humanization. Total RNA from 1308F hybridoma cells was purified by the method of Chirgwin and subjected to one round of oligo dT chromatography. Double stranded cDNA was made from this RNA using primers complementary to the g1 or K constant region segment. The cDNA was inserted into pUC18 at the Sma I site and transformants were screened using a second oligonucleotide from a region of the cregion between the first strand cDNA primer and the variable region. cDNA inserts from positive clones were subjected to DNA sequencing and the variable region sequences were determined.

A comparison of the 1308F VH sequence with all sequences in the NBRF protein sequence database was performed using the wordsearch program from the University of Wisconsin analysis programs. This search revealed significant homology to two human VH regions. The highest homology was to the human germline gene HV3. Thetwo sequences are 62% homologous overall and 65% in the framework regions. Significantly there is good homology at the junctions of the CDR segments and the frameworks with the exception of the 5' end of FR2. The mouse and human sequences as well as that of a potential CDR-Grafted combination of the two is shown in figure 3.

A similar analysis of the VL region revealed high homology to the human germ line V-kappa gene K102. The alignment of these sequences is shown in figure 2. In this case the homology is 62% overall and 73% in the framework regions. In each case a human J-region can be selected which is identical to the mouse sequence. This comparison is shown in figure 4.

C. Relevant Experience

L. Syd Johnson (Ph.D.) is a molecular biologist with considerable experience in the cloning, sequencing, analysis and expression of antibody segments. While at Genex Corporation he was instrumental in the development of single-chain antibody technology.

Geetha Bansal (Ph.D.) has more than 10 years experience in the production of monoclonal antibodies, and in Western blotting, RIA, ELISA, receptor binding, T cell proliferation and lymphokine assays. She is currently involved in the development of parvovirus B19 diagnostic assays, vaccines and hyperimmune globulin as well as AIDS vaccine and AIDS immunotherapeutic research and development.

David Feller (Ph.D.) is a biological computational chemist with experience in writing and using computer applications for the purpose of structure-function analysis of proteins and nucleic acids.

Molecular Vaccines, Inc. is currently developing and testing hyperimmune globulin products for three human virus infections: respiratory syncytial virus (RSV), Parvovirus B19 and cytomegalovirus (CMV). Further, we have research, development and business relationships in place with Massachusetts Public Health Biologic Laboratories (Dr. George Siber) for production of these immunotherapeutic products. Clinical trials are in their second year for the RSV product. The CMV immunotherapeutic has been approved by the FDA an is expected to be marketed in

D. Experimental Design and Methods

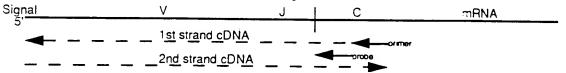
To develop humanized antibodies against RSV, we will begin with murine hybridoma cells producing murine monoclonal antibodies which have been shown to neutralize RSV in vitro and protect cotton rats against lower respiratory tract infection with RSV. RNA will be extracted from these cells, the rearranged immunoglobulin variable regions will be cloned and sequenced and murine CDR's will be substituted into human heavy and light chain cDNAs. The humanized antibodies will then be expressed and characterized relative to the parental murine antibodies to be certain that the genetic manipulation has not drastically altered the binding properties of the antibodies.

1. Cell Growth and mRNA Extraction

Murine Hybridoma cell lines will be maintained in RPMI 1640 supplemented with 15% fetal bovine serum. Cell culture supernatants will be routinely assayed by ELISA for the production of antibody with specificity for the RSV F protein. Total RNA from 1 x 108 cells will be extracted by the method of Chirgwin, et al (32). pA+ RNA will be purified by oligo-dT chromatography using spin columns. We have also had success purifying pA+ RNA adequate for cDNA cloning of immunoglobulin variable regions using the Fast-Track kit from Invitrogen.

2. Variable Region cDNA Cloning and Sequencing

cDNA copies of the VH and VL of the target antibody will be generated essentially as described by Bedzyk, et al (33). The first strand cDNA reaction will be carried out using a phosphorylated oligonucletide complementary to a segment of the mRNA coding for the constant region of the particular heavy or light chain isotype. This primer anneals to a segment of the mRNA adjacent to the variable region. Second strand cDNA synthesis will be carried out using RNase H and E coli DNA polymerase I, as described by Gubler and Hoffman (34), followed by T4 DNA polymerase to assure that blunt ends are produced.



The ds-cDNA will then be ligated into pUC18 which has been digested with Smal and treated with alkaline phosphatase. The ligated DNA will be used to transform E. coli DH5a by the method of Hanahan (35). Colony hybridization will be used to identify transformants carrying the desired cDNA segment. The probe for the hybridization will be a second segment of the c-region sequence lying between the first strand cDNA primer and the V-region. Probes corresponding to the J segments of the will be determined. Because the 5' end of the first strand cDNA is fixed a nested set of sequences can be chosen for sequencing by picking those approximately 450bp (full length), 300bp and 150bp, subcloning into M13mp18 and mp19 and sequencing. After the sequence is determined in this way full length clones will be sequenced entirely on both strands to assure that this agrees with the composite sequence.

By taking advantage of the fact that immunoglobulin variable region genes are flanked by conserved sequences on one end and by semi-conserved sequences at the other, it is possible to design consensus primers to selectively clone the variable regions of rearranged immunoglobulin genes by the use of the polymerase chain reaction (PCR) (36,37). This approach will be used as an alternative if the cDNA cloning does not proceed rapidly, and as a replacement for this step at a later time.

3. Design and Assembly of Humanized Antibodies The CDR regions of the $V_{\hbox{\scriptsize H}}$ and $V_{\hbox{\scriptsize L}}$ will be identified by comparing the amino acid sequence to known sequences as described by Kabat (38). In order to select the human framework sequences best able to accept the mouse derived CDR sequences in a conformation which retains the structure of the antigen combining site, the following strategy will be employed. First, the sequence of the murine VH region will be compared to known human sequences from both the Genbank and NBRF protein databanks using the Wordsearch program in the Wisconsin package of sequence manipulation programs (39). The best several human V-regions will then be

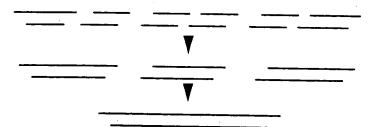
analyzed further on the basis of similarity in the framework regions, especially at the junctions of the framework and CDR regions.

Molecular modeling will be done using Silicon Graphics (SGI) computers at United States Army Research Institute of Infectious Diseases (USAMRIID) and at the Army's Ballistics Research Laboratory (BRL). The computer application that will be used is DISCOVER (Biosym Technologies, San Degio, CA) which is built upon the AMBER potential energy functions.

The human VH regions selected in this way and the original mouse sequences will be modeled onto the corresponding region of another antibody for which a high resolution X-ray structure is available, such as MCPC603. The murine CDR regions will then be inserted into the human model and the structures compared with particular attention to (a) the structure of the combining site and (b) possible perturbations of the framework structure. In cases where there is a divergence in the mouse and human sequences at the boundaries of a CDR both will be modeled. In general preference will be given to retaining the mouse residues in such a case if it appears likely that substitution of the human residues will perturb the CDR structure.

The human V_L region can be selected in one of two ways (a) Use the V_L which was associated with the human V_H used or (b) use the same strategy as was employed to select the human V_H framework. Which approach we use will depend on the availability of a both V_L and V_H sequences in the databases and relative homology of the two to the murine counterparts. The former approach is preferable if both sequences are available. In a case where a human V_H framework is found and the V_L is not available, such as where the human sequence is from an unrearranged germline gene, the latter strategy will be undertaken. As long as a V_L of the same subgroup as the one chosen has been found with a similar V_H such an approach should be valid.

The designed variable region genes will be assembled from oligonucleotides. Complementary pairs of 60mers with 10 base pair overlap will be made and annealed. Adjacent gene segments will be ligated together pairwise and then three sets will be combined to assemble an intact VL or VH gene segment (350bp).



4. Expression of Humanized Antibodies

Once the humanized VL and VH have been designed and modeled the project becomes more empirical in nature. Genes will be designed synthesized and expressed, at which time the question of whether the affinity of the recombinant antibody is similar to the murine Mab from which is was derived can be answered. The rapidity with which these steps can be undertaken is thus of importance in finally obtaining a humanized antibody which retains most of the affinity of the parent. To this end we will work with an transient expression systems to produce large enough amounts of antibody or antibody fragments to compare to the native antibody or fragments therefrom.

The ability of recombinant vaccinia virus carrying the bacteriophage T7 RNA polymerase gene to promote efficient expression of foreign genes co-introduced under the control of a T7 promoter will be utilized as our initial production system. Plasmid vectors containing a T7 promoter and a Cap-independent translation initiation signal from the encephalomyocarditis (EMC) virus are available from Dr Thomas Fuerst at MVI. We have recently used such a vector to produce an active single-chain antibody (SCA) at a level of approximately 2ug/ml. The active SCA appeared to have been secreted as evidenced by removal of the signal peptide. While we could also produce an SCA version of the chimeric antibody, we do not foresee the necessity of this step for this project, where the end product will be a full sized antibody. Instead we will coexpress heavy and light chain genes either on the same plasmid or introduced on different plasmids. Production of whole immunoglobulins from a single recombinant virus has been achieved in insect cells using a baculovirus system (43). The utility of a rapid transient system depends on how much "tinkering" is required on the recombinant protein(s). If the initial design produces an antibody with acceptible binding and neutrallization characteristics it could go directly into the final expression system. If, on the other hand, more modifications need to be made the utility of the transient expression system will be significant.

Stably co-transformed mouse myeloma cell lines or "transfectomas" will then be generated in order to provide an ultimate production source for the modified antibodies. This will be done in a manner similar to that described by Oi, et al. (44). The heavy and light chain hybrid human-mouse cDNAs will be separately inserted into different expression vectors containing Ig promoter/enhancer sequences, to drive transcription of the cDNAs (22,29-31), and the dominant selectable markers for G418 (neo) or mycophenolic acid (gpt).(22). The expression vectors for the heavy and light chain cDNAs will then be co-transfected (electroporated) into Sp2/0, a non-producing mouse myeloma cell line. Transfectants will be selected initially for G418 resistance; stable transfectants will then be selected in medium containing both G418 and mycophenolic acid to derive cell lines which have incorporated vectors for both the heavy and light chains.

Cell lines will then be screened for production of heavy and light chain proteins by radioimmunoprecipitation. Cell lines expressing both chains will then be expanded, supernatants will be collected and antibody will be purified by affinity chromatography on protein G (Gammabind plus, Genex, Inc.).

5. Characterization of Humanized Antibodies.

- a. Antibody binding to the RSV F protein. The purified antibodies will be assayed by an ELISA for reactivity with the RSV F glycoprotein expressed by a recombinant vaccinia virus (18) or purified RSV virions. To evaluate the relative binding affinity of the chimeric antibodies as compared to the parental murine antibody, competition solid-phase radioimmunoassays will performed (18). One antibody will be metabolically labeled with ³⁵S-methionine. A saturating amount of labeled antibody will be mixed with increasing concentrations of either the murine or chimeric antibodies and competition curves generated. Reciprocal competition experiments will also be performed. In this way inhibition curves can be compared and the relative binding affinity of the antibodies can be determined. This assay is in place at MVI and has been used to map MAb's to different antigenic sites.
- b. <u>In vitro virus neutralization</u>. Virus neutralization curves will be determined in a standard assay. Serial two-fold dilutions of antibodies will be mixed with 100 tissue culture infectious dose50 of RSV in the presence of 5% guinea pig complement. After

sixty minutes, the virus antibody mixtures will be transferred to Hep-2 cells in 96-well plates and six days later monolayers will be examined microscopically for cytopathology. Neutralization titers will be expressed as the lowest antibody concentration which inhibits more than 95% of viral cytopathic effect present in control wells.

c. <u>In vitro</u> protection studies in cotton rats. Cotton rats will be administered different doses of antibody 24 hours prior to intranasal challenge with RSV. Four days after challenge the animals will be sacrificed and viral titers in lung and nasal tissues will be determined by a standard plaque assay on Hep-2 cell monolayers as described (13). These studies will be done through a contractual arrangement with Jackson Foundation (see section H).

E. Human Subjects

None

F. Vertebrate Animals

The proposed project involves the use of adult cotton rats (Sigmodon hispidus) to assess the protective efficacy of antibodies against RSV challenge. Animals will be obtained from the Veterinary Resources Branch, Division of Research Services, National Institutes of Health. Approximately 45 animals will be used for these studies.

Animals will be housed at the Uniformed Services University of the Health Sciences or off-site at a contract facility on Medical Center Drive, in Gaithersburg, Maryland. An AALAC certified veterinarian is available to counsel of the care and use of animals. Veterinary care includes a program for prevention of disease; daily observation and surveillance for assessment of animals health; appropriate methods of disease control, diagnosis, and treatment; and guidance of animal users in appropriate methods of handling, restraint, anesthesia, and euthanasia.

All procedures in this project ensure minimal discomfort to animals. Animals will be anesthetized with methoxyflurane prior to intranasal instillation of antibody and virus challenge. At four days post-infection; animals will be sacrified by carbon dioxide inhalation.

G. Consultants/Collaborators

(see section H).

H. Contractual Arrangements

MVI has established a collaborative research and development agreement with the Henry M. Jackson Foundation to develop and produce immunotherapeutic products to prevent or to treat serious respiratory infections caused by respiratory syncytial virus, parainfluenza viruses, and influenza. Participating from the Jackson Foundation are Drs. Val Hemming, Gerald Fisher, and Greg Prince who have pioneered the use of immunoglobulins in the therapy of respiratory syncytial virus infection. While the initial goal of the agreement is to develop high titered, enriched RSV immunoglobulin for intravenous use, second generation products are under development that are an improvement over intravenous immunoglobulin in regard to potency, duration/protection,

and ease of delivery. In addition, MVI has licensed from the U.S. Government exclusive rights for the topical (aerosolized) use of enhanced immune globulin for the therapeutic and prophylactic treatment of RSV infection. No support for this arrangement are sought though this SBIR proposal.

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Other Grant and contract support

A. Active Research Support:

NIAID, NCVDG; Contract No. AIDS-1,1U01 AI28171-01 1.

"Vaccines Development for Human Immunodeficiency Viruses"

P.I.: Wayne T. Hockmeyer

% effort, G. Bansal:

D. Feller: 25%

Annual direct costs: \$592,261

Grant period: 3/89-2/94

2. DOD, USAMRDC; log No. 89166005

"Flarvivirus RNA Replication: Essential Viral Functions as Targets for Antiviral

Therapeutics"

P.I.: Marc S. Collett

%effort. G. Bansal:

D. Feller: 30%

Annual direct costs: \$216,633

B. Proposals Pending Funding:

1. NIH, Phase I SBIR

"Surrogate assay for B19 Parvovirus Serum Neutralization"

P.I.: Geetha Bansal: 30% effort

% effort, J. Hatfield: 20%

Annual direct costs: \$24,172

D. Application Organization Active/Pending Funding for Work Related to this Project:

None

Figure 1 Pr phylaxis of RSV Infection in S. Fulviventer Using Anti-F Monoclonal Antibodies

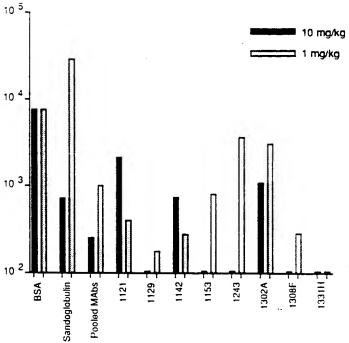


Figure 2 Prophylaxis of RSV Infection in S. Hispidus Using Anti-F Monoclonal Antibodies

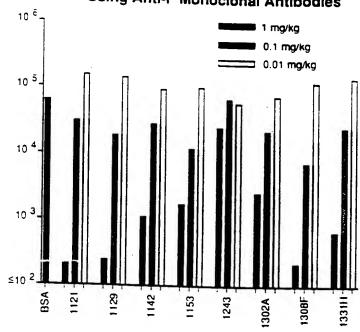


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PRINCIPAL INVESTIGATOR: JO	ohnson, Les	lie	Sydnor
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# CHECKLIST (Front)

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a definduency apply:		polices of this certifi	ication, the following definitions
<ul> <li>For direct loans (whether award funds), a debt more than 31 da</li> </ul>	ded directly to the applications past due on a schedule	nt by the Federal Government c ed payment.	or by an institution using Federal
<ul> <li>For guaranteed and insured load Government has repurchased from</li> </ul>	ns, recipients of a loan gu rom a lender because the	aranteed by the Federal Govern	ment that the Federal
amount or which have not reso	lived the disallowance. (De	Cost Disallowance" which have	not repaid the disallowed
Where the applicant discloses de into account when determining w	elinquency on debt to the	Federal Government, the BUS of	shoul (1) Additional of the status.)
(2) consider not making the grant the debt is owed. Therefore, it make confirm the status of the debt an indebtedness to the Federal Gove assistance from the PHS.	until payment is made or ay be necessary for the Pl	satisfactory arrangements are HS to contact the applicant bef	made with the agency to whom  Ore a grant can be made to
g. D barment and Suspension.		Yes." attach explanation.)	•
Before a grant award can be made principals are presently debarred, covered transactions by any Fede egal entitles (called "lower tier"; heir covered transactions. Please Regulations Part 76, for complete	e, the applicant organization suspended, proposed for rail department or agency.	on must certify, among other the debarment, declared ineligible, Subawardees, that is, other co	Or voluntarily excluded from

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	general V	<del></del> .		ATT CAG CTO	S ACC	
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<u>G</u> IA		al V _H 5'	5542	conc = 2.46mg		
3' (	nouse happa	CLIMET W	ith Bamtli si	AGT TGG TGG		
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J41 :	(330)(30)= 99	00				
	(330)(30)= 99 (9900) (2.15 ×	10-3 qm/ml)	= 2.17 × 10-7 mol/	m1 = 217 amel/	λ	
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		ul per ml.				
		•				
J10 !:	(330)(H <del>247</del> )= B	91 <i>0</i>				
	(8910) (1247×11	$0^{-3}) = 1.40$	×10-7 mol/m1=1	40 cm = 1/2		
	140 x = (25)(1	000)				
	x = 178.4 m	L per ml				
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	249 x = (25)(	1000)		•		
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3311	(330)(24)= 792			·		
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From Page No. PCE Reaction to generate V_ and V_ fragments from A region him 11  Table Fragment Template Primers Fragment Template Primers Fragment Template Primers Fragment Template Primers Fragment Template Primer STII 94°C 2 min STII 94°C 1 min STII 94°C 2 min STII 94°C 1 min STII 94°C 2 min STII 94°C 2 min STII 95°C 2 min STII 9	TITLE				Book No	_
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TITLE From Page No.__ 1-30-91 Miniprep plasmid DNA sequencing · After Iml ethanol potion, dry fellet, resuspend in 100, LIE plus 100, Almer RNase A · Incubated @ 372 for 30" · phenol/chioraform extracted · Added 35 pt 20% > PEG, 2.5M Nacl ·Spin 5' ·wash \$ 70% ethanol, vacdry 2X · resuspended in 25 of TE Use 2mg DNA template in time volume. Add Dul 2M NOCH Incubate at RT for 5 min Ad 3 M Na DAC PH 4.5 (10 ug/ ): It Sequencing Primer (Universal) (0.5pmo 5 mL SJ12 (reverse primer) 10 mg / pgl 75 mg for 5min, rinse to 70% ethanol 2x, vac dry resuspend in 25 pt TE Annealing... 2 ug DNA Sul of DNA/primer mux and Sequencing buffer Annual by heating 2mm as 15°C, the se cooled slowly to 235°C While cooling fill and cap tunes w 2.5 pt of ea. termination mixture Dilute Sequenase for all templates in ice cold. TE buffer 1:8 5 m: 35 m Exz. Dil. Pre-warm 4 termination tubes in 37°C both LABEUNG RXN: To tool annealed DNA mixture ( light) U. M. DIT Diluted Labeling Mix [35S] dAtp Diluted Sequences incubate at AT. 5 min To Page Witnessed & Understood by me. Date Inventor by Recorded by

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· Grew 2 ml cultures of -	75+76 #1-3	to ~mid-loo	
· Infected with FIG E			**************************************
· Grew for 5 hrs.			
· Spun down and saved	Supernata	ent in refrigerator	
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· Precipitated phage by · Ice for 30min	adding e	qual volume 13% PEG	I.5MN∂U
· Spundown for 15 mi	n at 10000	O com	· · · · · · · · · · · · · · · · · · ·
· resuspended in 300,			
· resuspended in 2014	ext., chlo	roturm ext, ethanol	ppt, ethanul wash, c
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TITLE. From Page No. 2/22 36ml DNA PSHI HINDON-PST 4nd React 2 2 HINDIE Oul fet I 1.5 hr incubation gel fractionate Gene Clean resuspend in 2011 TE Kinasia treatment: psHI Pst-HinDa 12 m 2d IDX dycine-kinase buffer 20mM ATP O.IM DIT T4 Kinase incubate at 37°C > Inr. (too long) Annealled S1101 to (1,11) + S1102 (1,12) + 2,11 Pxn Buffer + loud H20 65°C 3min slow could Ligation reaction: 10, 2 > HI PSI - HINDER (Kinased) 10ml annexled linker Aul ligise Guffer O/N incubition RESULT: ps/ is the wrong vector to be using for this experiment Report w To Page Date 2/9) Witnessed & Understood by me. Date invented by Recorded by

Project Nc Book No._ TITLE_ m Page No._ 2/21 CR Reaction Tube Template Fragment Program Primers UCIBY, 1129=5 51103(194) ECORV-HINDIL 2min 94°C SJ 104 (129) VL1129 Imin 94°C Till 30 X 2 min 60°C 2min 72°C 8°C soak O/N 22 5103 (25pmol/2) V, 1129 2min 94°C Ecofy-HinDa 55104 1min 94°C UC 18 H ... 1129 51105 V.1129 f. 8°C soak o/N CDNA 1129 3_ 51105 Ine Templeta Primers Fragment 12 1min 94 °C 2 min 37 C & min 72 ℃ 2- PUCK 1 129 €ي¦د€ 129 ے )زے Note: uses more Tap Dolymerase To Page No.___ messed & Understood by me. Date invented by Date 2/22/91 Recorded by

TITLE _ Jok No.__ From Page No.__ 。シタター SJ103 - 1129 and general VL 5' EcoRI, ClaI, EcoRV gCg gAA TTC AgA TCg ATA TCC AAC TgA CCC AgT CTC CA STOCK CONC ! C. Mq / m | ECORY (330)(38)= 12,540 (12,540) (1 x 10-3 m/m1) = 8.0 × 10-8 mol/m1 = 80pmol/2 Box = (25)(100) x = 31.25 4 in 100 الله 150 X SJ104 - 1129 VL 3' HindIII TAT TTC AAg CTT ggT CCC CTA gCC gAA CgT (330)(30) = 9900 (9900)-1(1×10-3)= 1.0 × 10-7 = 100 pmol/z  $100 \times = (25)(100)$ X = 25 m in 100 ml H20 SJ105 - 1129 VH 5' ggT TCT ggT AAA TCT TCC gAA ggT ggT AAA ggT CAg gTg CAg CTg CAg CAg TC(A,T) gg (330)(56) = 18,48,0 (18480)-1 (1×10-3) = 5,4 × 10 = 54 pmcl/2 54x = (25)(100) X=46.3 mi per 100mi H20 To Page I Witnessed & Understood by me. Date invented by भेरम्गा

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1.1.1: 50 - 50; Project No. TITLE_ Lok No. From Page No. 3-21-91 Sequencina PVC18 V - VH + 55+9 , P5401-2627-CMV + 4 PUC 18 V - V4 #5 midi forward - V4 # 5 midi / #9 mide mede 5/112 mide 05401-2627 pcmv#4ma DUC 18 mude PUC 18 NCO-Not #1 mm. -40 PUC 18 NCO-Not + 3 mm -40 I not correct 2- 75+ 76 #2 min SUD to not contain the desired ... (1370 PEG, 1.5M Nacl) PUC 18 V-V, #9 05401-2627-pcmv puc 18 PUCIE NO - Not 1 23 75+76 1,2,3 A260 dilution extraction coeff PUC18 V-V #5: 0.51 × 200 = 102 × 50 = 5100 M PUC 18 V - V # 9: 0,263 x 200 = 526 x 50 = 2630 mg : 0,47 × 200 = 94 × 50 = 4700 ug PUC 18 To Page No. Witnessed & Understood by me, Invertice to the second Date Date 3/21/91 Recorded by

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1 1 6 Project No. nor working TITLE. ook No. au From Page No. 3/25/91 14 8 12 11 10 9 4 7 6 5 4 1- MW Marker 2-05134 HADIT PST34 HINDER + N استعادت ever link HINDIN PUCLE LINK NCO + HINDER OUC 18 line Noo pucia link Not Sact OUC 18 SACT DUC 18 1 129 ECO FZ - HINDIN PICIS V 1129 PXX TT - pucity, in the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the time to the t the following DNAS into DH5- K: V 1308 + signal in 2627 derived vector 5134: V 1308 + signil in 2627 derived vector PUCIS E 5136: 5401-2627 + pcmvpA +1 (from Snd) * Result: approximately 300 colonies / plate T. Fact of

والمطاوعين التطافي والمتاكية

Digest - WC18 link W Ecopy + HinDOT (for frag isolation tempor Ligations: <del>हा उप्च</del> काटाइ PU18 32 VCO-HUND NCO SOC DUC 18 NCO-Sac PUCIS No -HIND المرا SU34 Noo- HAD الرو ال 10x Lig. Buf . يسرو 2re IOX ATM .. سری ۰۰ اعدوا To Pag Date 15 /WE Witnessed & Understood by me, 15 JUL Date 3/2491 Recorded by

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s.4a buchglml			140 A	4 · 5.1	2 1
Sequence (Triplets): CGG AAT TCA GGT SMA RCT GCA	H	: - 1	,	્ફે	11
GSA GTC WGG [A]	H				
G G			- 11		
5.143 1.72 mg/ml				-	-
Sequence (Triplets): CGC AA-T TK A GGT EAT GCT GCA	#-	$\dashv$	-	$\dashv$	<del>:</del>
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2 92 mg/ml					
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Sequence (Triplets): 10 20	$\dashv$			$\dashv$	$\dashv$
GCCAATTCC ATGGACTGGA CCTGGAGGGT C	$\dashv$	•		1	$\dashv$
5 section AB of humanized 1308F V-H	$\Box$	$\Box$			
SJ34 2.033 mg/ml	_	-	_	$\dashv$	_
Sequence (Triplets): CGC GGA TCC GAG GTG CAG CAG	+		+	$\dashv$	$\dashv$
<u>CTG GTG CAG</u>					_
257 VH 15 (PVUI)	$\bot$	$\Box$			
5171 3 96 mg/ml		Fo P	ag	N .	<u>=</u>
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Project IV  Book No TITLE
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Sequence (Triplets): CAG GTG CAG CTG
- CAG GTG TCG GGC CC
- V4 248 (5'-PSt PVUII)
Sequence (Triplets): GGG AAT CGA GCT CGT CAT GAA
ACA CCT GTG 6
( ST82 4.64 mg/ml
BspHI at natural VH signal of 98-6
SJ119 Hu1308VH/H71 arg to ser (top) 5' AgA gTC ACC ATg ACC TCA gAC ACg TCC ACg AgC
SJ120 Hul308VH/H71 arg to ser (bottom)
5' gCT CgT ggA CgT gTC TgA ggT CAT ggT gAC TCT
SJ121 Hu1308VH/mu to hu 66-71 (top)
5' AAg gCC AgT ATT ACA TCA gAC ACg TCC ACg AgC
SI122 Hu1308VH/mu to hu 56-71 (bottom)
5' gAT gTA ATA CTg gCC TTg CCC Tgg AAC TTC ggg
S1123 Human C-gamma 3' / RI, NotI 5' CCg AAT TCg Cgg CCg CAC TCA TTT ACC Cgg AgA CAg g
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incubated at PT for 3 hr.  transformed into DH5- a plated on 184mp  5-lu-91  Rick & DS182 V. (0.4)  6 DS32 V. (0.8)  41-43  12 41-49  To Page N  meseppt & Understood by me.  Date Invented by  Date		l de	1 1		15	3,0.	1.1	3re		عرا		عرق		, .	8,	e
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Fig. 41  Pick (c. ps.182 V ₁ (0.4)  (c. ps.182 V ₁ (0.8)  grew 5ml minipreps  12 41-43  12 41-49  To Page N  Invented by  Date Invented by			1	*/1							1 1					
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Exhibit 3

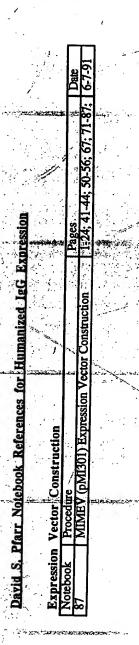


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pSJ36N-: NeoI destroyed in pSJ36 vector	1-7
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in Street into pSVZDHFR	
pSV2DHFRNO : NOI silve destroyed in pSV2DHFR X	11-16
bGH PCR: remove bGH poly (4) via PCR; aborted! X	21-24
98-6: VK: PCRout 98-6 VK, subclone intop BR3ZZ	25-32; 10
98-6:VH: PCR 98-6 Hongy chain, subclone in top BR372	33-40
pSJ36NL1: Kozak linker insertion into pSJ36N-	41-44
pSJ36NLCAT: Subclining CAT gene into pSJ36NL1	45-49
pSJ36NLZ: Linker addition to 5'side of CAV in pSJ36NL1 X	5º;52;67.
pSVA2N-DHFR: Knock out of 2 NoI sites in DHFR rossitte	
98=6:50 FV: VHVL single chain FV of 98-6, from Batra's immunetorin	57-64,9
1308F/CVacFr RIP#1: RIP = At R (LUB95-4) using COS made 1308F	65-66
6GHPCR#2: PCR out bGH poly (1) using new primers.	71-75
MIMEVI:	76 - 87
Syd Stuff: work for S. Johnson, while he was vace troning.	68-70
A Aire	95-98
MEV98-6HL Construction: PMI 304	103-113
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No Pansorbin Calls left, so will use Samples.  Dadd 1.78 mg of soch Ab supernato  Mack - Ind	Proteint Sopherose to immunograngita
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No Panserbin ( \$1/5 /eft, so will use Samples.  Out make on bone CH1/29!  No Panserbin ( \$1/5 /eft, so will use Samples.  Odd 1.78 mg of soch Ab supernato.  Mock - Ind  Hisorf R-5=175 ml  Hisorf R-5=257 ml	Proteint Sopherose to immunograngita
No Pansorbin Calls left, so will use  Samples.  Didd 1.78 mg of soch 16 supernato.  Mock - Ind  Hisorf R-5=275 ml  CHI29=19 Ind	Proteint Sopherose to immunograngita
No Panserbin Calls lett, so will use Samples.  Padd 1.78 mg of soch Ab supernata  Mock - Ind  Hisorpesal75 ml  Hisorpesal91 ml	Proteint Sopherose to immunograngita
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No Pansorbin Cables left, so will use Samples.  Dald 1.78 mg of soch Al supernato Mack - Ind  Hisorpesser - 57 L  CHIL29 01 - 1 ml  HIL29 01 - 1 ml  HIL29 01 - 1 ml  HIL29 02 - 1 ml  SJ	Proteint Sopherose to immunoprensites  to a microsige tube  Ution 22. Flowth 10 42 - 168ml
No Pansorbin ( 46/5 / 6 ft so will use Samples.  One make on be one CH1/29!  No Pansorbin ( 46/5 / 6 ft so will use Samples.  Odd 1.78 mg of soch 12 supernato  Mock - Ind  H1508F R-5 = 175 ml  H1508F R-5 = 19 /ml  CH1129 = 19 /ml  H1179 = 1 - /ml	The Fuein 42. Flowther 42 - 168ml
No Pansarbin ( 18 1/5 / 6 ft ) so will use  Samples.  Odd 1.78 mg of soch 16 supernato  Mock - Ind  HISOBF R-5 = 175 ml  HISOBF R-5 = 19 / ml  CHIET = 29 / ml  HILL T = 1 - Ind  HILL T = 1 - Ind  SI  SI  SI  SI  SI  ONE MINISTER  SI  ONE MINISTER  SI  ONE MINISTER  SI  ONE MINISTER  SI  ONE MINISTER  SI  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MINISTER  ONE MI	Proteint Sopherose to immunoprensites  to a microsure tube  Ution 2. Flowth 10 42 - 168ml
No Pansarbin Calls lett, so will use  Samples.  Odd 1.78 mg of each 16 supernato  Mack - Ind  Hisore Rose - 57ml  CHILLET 2 - 1 ml  HILLET 2 - Ind  HILLET 2 - Ind  SJ  - bring up to Ind = DMEM/1071	Proteint Sopherose to immunopringibile  of to a microsure tube  The Fuein #2. Flowther #2 - 168ml  15  to each tube, rataly 40c, 14-15!
No Pansarbin Calls lett, so will use  Samples.  Didd 1.78 mg = froch 16 supernato  Mock - Ind  Hisorres = 175 ml  Hisorres = 19 Ind  CHI29 = 19 Ind  HILLE 9 = 1 - Ind  HILLE 9 = 1 - Ind  HILLE 9 = 1 - Ind  SJ  Spin 1' microsogy, derant, resuppress	Protein 1. Sopherose to immunopringible  of to a microsege tube  The Fuein 2. Flowth 1. 82 68ml  15  to each tube, sobole 40c, /hr 15%.  of in Impl PBS 5. Mac 1. 18 To the Sain
No Pansarbin ( ) 1/3 / 6 ft, so will use  Samples.  Padd 1.78 mg of soch 11 supernote  Mock - Ind  H1508F R-5 = 175 ml  H1508F R-5 = 19 / ml  CH129 = 19 / ml  H1129 = 2 - Ind  H1129 = 2 - Ind  Spin 1' micrology, derent, resuspen  (1) Repeat a bove wosh; wash 2x	Proteint Sopherose to immunoprensition  It to a microsure tube  It turn "2. Flowth 10 "2 68ml  Is  to rect tube, robote 4°C, 14 - 15'.  In 1ml 185-15-1461-127 item, spin,  in 185-1767 iilen and 78 ii. PRS
No Pansarbin ( ) 1/5 / 6 ft so will use  Samples.  Padd 1.78 mg of soch 11 supernote  Mock - Ind  H1508F R-5 = 175 ml  H1308F R-5 = 19 / ml  CH129 = 19 / ml  H1129 = 2 - Ind  H1129 = 2 - Ind  Spin 1' micrology, derent, resuspen  (1) Reprost a bove west, wash 2x	Proteint Sopherose to immunopringible  of to a microsupe tube  Whitein "2. Flowther "2 68ml  Is  to rect tube, robote 4°C, 14r 15!.  of in Impl. PBS 5. Macci - 12 Triton, spin,  of BSS-176 Triton, and TX in PBS.
No Pansarbin ( ) 1/5 / 6 ft so will use  Samples.  Padd 1.78 mg of soch 11 supernote  Mock - Ind  H1508F R-5 = 175 ml  H1308F R-5 = 19 / ml  CH129 = 19 / ml  H1129 = 2 - Ind  H1129 = 2 - Ind  Spin 1' micrology, derent, resuspen  (1) Reprost a bove west, wash 2x	Protein 1. Sopherose to immunopringible  of to a microsege tube  The Fuein 2. Flowth 1. 82 68ml  15  to each tube, sobole 40c, /hr 15%.  of in Impl PBS 5. Mac 1. 18 To the Sain

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## RSV Plaque Reduction Assay H1308FS71-2 95-142 95-145 CH1129-2 1308F murine 20 100 200 300 400 500 600 700 800 900 1000 Ng Mab

Pr 'act No. . 98 TITLE COS: HISORF E-S; CHILL; HI179 book No. 95 From Page No.____ Note: Econstration plates were horvested again on bolez; the cells were also and the prollets frozen away. ELISA Proults 1/24 - 1/27 1/2 + 1/30 1.66 siglal 6.30 mg/ml H1308F: R+5=1a H1308F: R-5 = 16 4.32 mg/d 1.75 ug/ml 2.63 mg/ml #13081: R +5 -26 1.86 mgbe 1.23 mg/d Nord to see that both HISOSFIRESS and both CHILTE'S still bind to the F protein of OPSALLSORD Vac Lysatis -- add. 5ml ley- "LZ Mack Cossipe to each lysate (14/2), rotate 1.5 his @4°C. - add 100 & Pansorbin calls to lysates, cabate 4°C 30', spin, remove sopes to new to Bind Supra ("127 "/ce) to lyardes -- All 2nd lysote to . Sml Cos-supes from 1/24-1/54; rotate 1/40 @ 40C. 3) Has Adsorb to Stoph 1 -- ald 100 l Pansarbin cells to each supe, rotate three 4°C Spin 5'@ 5 on Biologed, decant sh = .5 ml IM Buffer, spin, decent, repret spine wood -- wash I - 5 ml RIPA, spin, do mand, reprat wash ; transfer to freel buby spin, dec -- Rosesprond in 100 l 1.2 x sample loading buffer. (4) load 25 l onto 15% SDS-PAGE -- boil sumples 51 -- spin 12k, bisfugy, 51 To Page I Witnessed & Understood by me, Date Lovented by Date 2/2/2Project No. 98 Book No. ____

TITLE COS: HI308FR-5; C. 29; HIIZ9

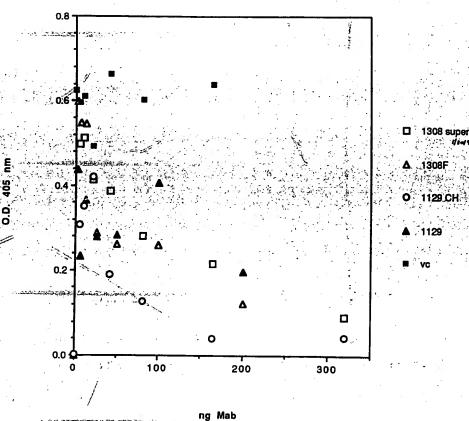
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Gel # Lane 1 - rain bow markers	<u>Gel*Z</u>
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OSpin Sol Parantis will a	spirale; transport in sont STE5% NETO, PT 151
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ald oilml lysate (The.	I Vocal to 25ml Cos Sipres cotate 1he @ 17
BASI 50 & Activated Pors	I Vect to .25 ml Cos supes, rotate 1 hr@ 12.
BALL 50 & Activated Pers  ( Wash orlls as above (	1 Voct) to .25ml Cos sipes, sotate 1 hr@ 12.  within cells to Supers/lysotes; rotate 30' 4°C.  NB95-43), use ,2 ml volumes
BASI 50 & Activated Pors	1 Voct) to .25ml Cos sipes, sotate 1 hr@ 12.  within cells to Supers/lysotes; rotate 30' 4°C.  NB95-43), use ,2 ml volumes
(1) Ship lysole (The as above (L. T. Store final gellete g	1 Voct) to .25ml Cos sipes, sotate 1 hr@ 12.  within cells to Supers/lysotes; rotate 30' 4°C.  NB95-43), use ,2 ml volumes
(That of last lysole (The.  (That so I between Pens  (Dwash expls as above (L  (DStore final gallete a	I voca) to 25ml Cos sipes, sotate 1 hr@ 12.  erbin cells to Supers/) potes; robate 30' 4°C.  NB95-43), use 22ml volumes  E-20°C.
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DASI SO L Activated Pens DWash orls as above (L. DStore final gillete &  brusty 1992  Resuspend PIP * Z prilets  suche micrology 51,  Gel 1  Lanc 1. Blank  z- [Mc] Peinhar Merkers  3- Mock/Flynte	in 50 al (ZX Sample Buffer, boi) 5; Spin in Gel2  Lane 1. [4C] Rain bow Markets
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BALL SO I Activated Prise  (B) Wash colls as above (L.  (F) Store final gellete of  brushy 1992  Prosuppend RIP & prillets  DICTORY 1992  Sel 1  Lane 1. Blank  2. [ac] Peinhau Morturs  3. Mock   Flyste  4. Mock   The Lyste  5. Hisoger-sel Flyste	in 50 of 12x Sample Buffer, boi) 51, Spin in 10ad 20 on 1570 SDS-RAGE:  Gel2  Lane 1: [4C] Rain bow Markets  2. Blank  3. Mock/Flyonke
BALL SO L Activated Pens  (D) Wash orls as above (L.  (D) Store final gettete of  brush 1992  Resuspend PIP *Z prillets  micrology 51  Lanc 1. Blank  2- [av] Peinhan Morkers  3. Mock / Flynte  4- Mock / Th. (yeste  5. Hisosf R-15 * / Flysole  6. Hisosf R-15 * / Flysole	I Voct) to 25ml Cos sepes, relate 1 hr@ 12.  rebin cells to Supers/lysotes; robate 30' 40C.  NB95-43), use 22ml volumes  1-20°C.  in 50ml (2x Sample Beffer, boi) 5', Spin in  load 20ml on 1570 SDS-PAGE:  Gel2  Lane 1: ["C] Rain bow Markers  2. Blank  3. Mock/Flyonbe  4- Mock/TK-lysote  5-CHITT9*//Flyonbe
BALL SO I Activated Prise  (B) Wash colls as above (L.  (F) Store final gellete of  brushy 1992  Prosuppend RIP & prillets  DICTORY 1992  Sel 1  Lane 1. Blank  2. [ac] Peinhau Morturs  3. Mock   Flyste  4. Mock   The Lyste  5. Hisoger-sel Flyste	I voct to 25ml Cos sipes, so tate 1 hr @ 12.  webin cells to Supers/yestes; rotate 30' 40C.  NB95-43), use 22ml volumes  E-20C.  in 50ml 1.2x Sample Buffer, boi) 5', Spin in  load 20ml on 1576 SDS-RAGE:  Gel2  Lane 1 [14c] Rain bow Markers  2. Blank  3. Mock/Flyoobe  4- Mock/TK-1yeste  5-CHITTO 1/Flyoobe
BALL SO L Activated Pens  (D Wash crits as above L.  (D Stork fine gettet @ g  Browspan L RIP & Microbian 51,  Sel 1  Lane 1. Blank  2. [MC] Peinhow Morkers  3. Mock/Flyste  4. Mock/Th. Lysola  5. Hisosf R-15 #1/Th. Hysola  6. Hisosf R-15 #1/Th. Hysola  7. Hisosf R-15 #1/Th. Hysola  7. Hisosf R-15 #1/Th. Hysola	Local to 25ml Cos sipis, so tate 1 hr @ 12.  within cells to Supers/lysotes; rotate 30' 40C.  NB95-43), use 22ml volumes  E-20°C.  in 50ml (2x Sample Buffer, boi) 5', Spin in  Load 20ml on 1570 SDS-RAGE:  Gel2  Lane 1 [4C] Rain bow Markers  2. Blank  3. Mock/Flyonke  4- Mock/TK-lysole  5-CH1179*1/Flyonke  4-CH1179*1/Flyonke
BALL SO L Activated Pens  (D) Wash orls as above (L.  (D) Store final gettete of  brush 1992  Resuspend PIP *Z prillets  micrology 51  Lanc 1. Blank  2- [av] Peinhan Morkers  3. Mock / Flynte  4- Mock / Th. (yeste  5. Hisosf R-15 * / Flysole  6. Hisosf R-15 * / Flysole	I voct to 25ml Cos sipes, so tate 1 hr @ 12.  webin cells to Supers/yestes; rotate 30' 40C.  NB95-43), use 22ml volumes  E-20C.  in 50ml 1.2x Sample Buffer, boi) 5', Spin in  load 20ml on 1576 SDS-RAGE:  Gel2  Lane 1 [14c] Rain bow Markers  2. Blank  3. Mock/Flyoobe  4- Mock/TK-1yeste  5-CHITTO 1/Flyoobe

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bind to RSV	F Protein	<b>.</b> .			
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5 February 1992	····	11/	in in Kalendaria .	en en en en en en en en en en en en en e	
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## Microneutralization

" All - in " De Francis Liver . . .



# 1308F-571 and CH1129on HEV18+ HILL AND LEVELS HILL AND CH1129  Want to produce more H1308F-571 (formerly H1308F 8-50) and CH112  Further analysis; want to see if MEU1846H and MEU98-64 coppers there is   10 February 1997  Harvest COSI cells, count : 2700 / 1 Econt  Sted 10 PMDs at 3:10 cells/plate.  II February 1982  Illy H1308F-571 22  1113 H1308F-571 22  1113 H1308F-571 22  1113 H1308F-571 22  1114 H1308F-571 22  1115 H1308F-571 22  1116 PS561 (800)	
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Harvat COSI cells, count : 270 / 180 / 180 / 100 / 100 / 100 of 3:10 cells plate.  II February 1992  Illy History 1992  Illy History 1992  (2) CH 1/29 "2  (3) 4 ps 175 (56) / 200 / 200 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 / 100 /	SPTE!
Harvat Cos I cells, count : 270   180ml  Sted 10 PROs of 3:10 cells plate.  II February 1992  III HISOBERS 11 "2  - 1864 ps 161 (808)  - 1814 hisobers 11 2 prop ( var)  - 1814 hisobers 11 2 prop 2 (var)  - 1824 CHI129 "2  - 1824 CHI129 "2 prop 2 (628)  - 1824 CHI129 "2 prop 2 (628)  - 1824 CHI129 "2 prop 2 (628)  - 1829 CHI129 (1828)  DEAE Dextron transfert as usual 4 plates Hisobers  TO CHI129 plate with 98-6 plates Hispahlen, iphate 2  Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispahlen  - Hispa	<u> </u>
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(2) CH 1/29 "Z  16/2 pSJ61 (808)  16/2 pSJ61 (808)  16/3 pSJ61 (808)  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2 ml TBS  2	
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- 16λ ρ5561 (808)  - 1113 HISOSF SH = 2 grep ( vod)  - 1113 HISOSF SH = 2 grep 2 ( vod)  - 2 ml TBS  - 63λ HISOSF SH = 2 prop 2 ( vod)  - 69λ ρ5 75 (568)  - 78 γ λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 ( = 2 ριορ 2 (628)  - 12 π λ CHIIZ9 (	
(2) CH 1129 = 2  (3) CH 1129 = 2  (3) PSJ75 (568)  - 69 \ pSJ75 (568)  - 142 \ CH 1129 L = 2 prop 2 (628)  (3) 98-6  - MEV98-6 H - 80 \ (208)  DEME Dextron transfer as usual, 4 plates = HIJOSES  = CH1129, 1 plate - 1th 98-6, 1 plate = HIJOSES  H1129h/L = 6.  - H1129L = 1 (2-11-92, S5): 29-1 (208)  - H1129L = 1 (2-11-92, S5): 25-1 (208)	12 /5.
(2) CH 1129 "Z  69 \( \rightarrow \rightarrow \) \( \rightarrow \rightarrow \rightarrow \rightarrow \) \( \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightar	<u> </u>
(2) CH 1129 "Z  69 \( \rightarrow \rightarrow \) \( \rightarrow \rightarrow \rightarrow \rightarrow \) \( \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightar	
- 192 μ ρ5775 (56χ)  - 192 λ ρ5775 (56χ)  - 192 λ CHII292 = 2 ριορ 2 (62χ)  - 192 λ CHII292 = 2 ριορ 2 (62χ)  - 192 λ CHII292 = 2 ριορ 2 (62χ)  - 192 λ σπο της το τος τος τος τος τος τος τος τος τος	
- 89λ pSJ75 (56χ)  - 842λ CHIIZ92 = 2 prop 2 (62χ)  in 2ml TBS  3 98-6  - ΜΕν98-61 - 20λ (20χ)  - Μεν98-61 - 20λ (20χ)  - Μεν98-61 - 20λ (20χ)  - Επείρο εχέτου εταμετεί ας εχεσί 4 plates ε Η1508Ες  Ε CH1129,   plate είτη 98-6,   plate ε Η1129 Η ενί,   plate ε  Η1129/ ε6.  - Η1129 ε1 (2·11-92, S5): 29 ε1 (20χ)  - Η1129 ε6 (2·11-92, S5): 25 ε1 (20χ)	
3 98-6  MEV98-6 H - 20 \ (208) \ pp b, 70% west, dry, re  MEV98-6 L - 20 \ (208) \ in 0.5 ml TBS  DEAE/ Dextran transfert as usual, 4 plates = H1708F.S  = CH1129,  plate with 98-6,  plate = H1129 H/2",  plate =  H1129h/2 = 6.  H1129h : 3.7 ml (208) for roch xfretion.  H11292 = 1 (2.11.92, S5): 29 ml (208)  H11292 = 6 (2.11.92, S5): 25 ml (208)	-00
3 98-6  MEV98-6 H - 20 \ (208) \ pp b, 70% wash, dry, re  MEV98-6 L - 20 \ (208) \ in 0.5 ml TBS  DEAE Dextran transfer t as usual, 4 plates = H1508F.S  E CH1129, 1 plate with 98-6, 1 plate = H1129 H/l=1, 1 plate = H1129 h/l=6.  H1129h: 3.7 ml (208) for reach xfreetien.  H1129l = 1 (2.11-92, 55): 29 ml (208)  H1129l = 6 (2.11-92, 55): 25 ml (208)	(A)
MEV98-6 H - 30) (208) pp b, 70% wosh, dry, or MEV98-61. 20 x (208) in 0.5 ml TBS  DEAE Dextran transfer t as usual, 4 plates = H1508F.S  E CH1129,   plate with 98-6, I plate = H1129 H/levi, I plate = H1129h/levi.  H1129h/levi.  H1129levi (2.1192, S5): 29 pl (208)  H1129levi (2.1192, S5): 25 pl (208)	╁
DEAE/ Dextran transfert as usual, 4 plates = H1508F.S  = CH1129, /plate with 98-6, /plate = H1129H/2", /plate =  H1129h/2 = 6.  H1129h: 3.7 pl (20x) for each xfretion.  H11292 = 1 (2.11.92, 55): 292 (20x)  H11292 = 6 (2.11.92, 55): 25 pt (20x)	-
DEAE/ Dextran transfert as usual, 4 plates = H1508F.S  = CH1129,  plate with 98-6,  plate = H1129H/2",  plate =  H1129h/2 = 6.  H1129h: 3.7 ml (20x) for each xfretion.  H1129l = 1 (2.11.92, 55): 29 ml (20x)  H1129l = 6 (2.11.92, 55): 25 ml (20x)	-
DELE/ Dextron transfer t as usual, 4 plates = H1308F.S  E CH1129, /plate with 98-6, /plate = H1129H/lol, /plate =  H1129h/loo6.  H1129h: 3.7 al (20x) for rech xfretion.  H1129loof (2.11.92, S5): 29 al (20x)  H1129loof (2.11.92, S5): 25 al (20x)	<u> </u>
H/129h: 3.7 al (20x) for rech xfeetion. H/129l = 1 (2.11.92, 55): 29 al (20x) H/129l = 6 (2.11.92, 55): 25 al (20x)	+-
H/129h: 3.7 ml (20%) for rech xfeetion. H/129l = 1 (2.11.92, 55): 29 ml (20%) H/129l = 6 (2.11.92, 55): 25 ml (20%)	+,,
H 1129 h: 3.7 al (20%) for rech xfeetion. H 1129 l = 1 (2.11.92, 55): 29 al (20%) H 1129 l = 6 (2.11.92, 55): 25 al (20%)	7/4
H1129 L = 1 (2.11.92, S5): 29, L (208)  H1129 L = 6 (2.11.92, S5): 25, L (208)	
H11292 = 6 (2.11.92, S5): 29, (20)	
HII 29 L # 6 (2.11.92, S5): 29, L (202)	T
( HII 29 L # 6 (2.11-92, S5): 25 ml (203)	i
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Pro	ject No. 98/.83			~		
	ook No. <u>-15</u>	TITLE <u>CO<b>S</b>:    13087-571</u> ;	_11129; MEU98	-66.L; H	1/29	hel
Page No						7.
February 1992			· ·		+-	!
	9 + 900 AM (	63.5 Krs); ELISA	:		+-	-
			•		÷	-
1308F-S7	1: 3.11 ug/ml	X 38ml				-
CH1129:	4.72 ug/ml	X 28.5ml			-	-
v'		-				
H1129 1:	102 ng/ml	-x 9.5 ml				$\forall$
H 1129 %:	248 ng/rel		2.5ml	91477	£6	$\vdash$
		7	CHR 21	<del></del>	2	
MEV98-6:	3.98 mg/ml 4		News ass		(* 3\$	·
				150	J 34	
Fredplates	with 10 ml m	edium		2/14/92		$\mathcal{X}$
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@0.5m	L-MEU98-6(4,4)=	1.99 49				$\top$
@ 1.L 1.	Suglal HIghlik	filetal to Int in PBS				
(£) 1.25ml	H1308F 95-121, 1	rection =2 = 1.0/mg		To	Page N	
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H1129-1B: 450ng/ml	Values are	very low!	Fith
H1129-64: 77 ng/ml H1129-74: 32 Cha/ml	is a problem in	ith the Du	
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Project No. 98

Book No. 15 TITLE COS: H1129 b. el; CH/H 1179-61; H1308F: H66-71

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TITLE 1308 F Perification COS 8/9/91 Xfeetion Book No. 95 1308F Porification: Protein G From Page No.__ COS 8/9/91 Transfection NS Supres Thew COS/1308F Segrs at 40C 3 October 1991 Parpare Amican MAC. Protein G capsule (Item# 11039,25mm : ( Wash = 20 al PBS, ~ Int/min. (2) wash with 0.15 M Glycine pHZ. 3, 15 ml, ~ Intlinia 3 wash with 15 ml PBS; electe pH7.5 at end Tiltered 1308F 10% No Stiem COSI Sept, 8.9.91 Ligns Portion, Zu Cyllulose Arytale filly1. 100 ded 80 ml sample @ 370.60g/ml (ENB95-175); 80 ml landed in 60 min (21.3 ml/min) Total Sample = 29.6 mg Wash disk with 20 ml 7BS, 1.3 ml/min; save PBS wosh. Fluted disk with OisM Glycine, pH2.3, 12 ml. Collect 6:2m aliquots into 15 ml labors containing & Int 21 Tris Bosz, pH unidjusted; eluted using syringe. Read 1280 of fractions 1-,275 1020 4- .015 5- 1015 6- .015 To Pag

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Priect No. .98 TITLE 1308 F Purification 8., 11 Transferdin; Protein A From Page No. 1308 F Porification: Protein COS 8.4.91 Transfection, NS Pooled Suprs 4 Golober 1991 Parpart & Amicon MAC Protein A Capsult (#11035) ( Wash with 25 ml PBS, syring + (2) Wesh with 20ml .15 19 Glycine pH2.3 syringe.

3 Wash with 25ml PB5, syringe Final plante - pH7.5 Logded 80ml sample (LNB95-103) onto capsale by pristalling pemp, ~ 1.3 ml fain, in cold soon -- Total sample = 29.6 mg Wash disk with 20ml PBS, save wash; 1280 of last in OiISM Glycine pH2. 3; collect in tubes containing low 2M Tris Base, of wordjusted A280 of Samples: .022 3- 1013 5- 1016 6- .014 Dialyze fractions #1,2 against PBS at 4°c(30): Run Gelon Preload Flow thre, PBS wash, Gartion DI -- LNB 95-104 for Gelinfe, Gel LNB95-106. Remove Samples to 15 ml Lubry; 4°C c/N To Pag Witnessed & Understood by me, Date Invented by Date 1-1-la.

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Project No. 98 TITLE 1308 F Purification 19:21 Trans	Section; P
Page No.	
7 October 1991	<del>-</del>
Ig G gentitation ( by ELTSA) LNB95-178:	
Sample: 240ng/wl	
Flow Thru: 35 ng/ml	
PBS Wash: 0	
Freetian 1: 443 ng Incl	
Note: rolor developmentues slow and low. The	applied :
was the same as for the Probin G- applied sample	· CLUBS!
which had a value of 772 ng/ml.	
8 October 1991	
Concretate fraction lusing Conticion 30 concentrator	
Oapply 2.3 ml to concentrator	
@ Spin 301, 3000 RPM, 4°C JA70	
3 Apply 2 ml more, repeat stop #2	
(1) Final volume = 420 of = 10 fold conventration	ion
TITOL	
ELISA	
Proteins fraction 1:58.3 ng/ml	· :
Protoin Afraction I concentrated: 415.7 ng/ml	
Telel comple hand to make 1= 1/4 /6 1 Cl 11 7.	`
Total sample recovered: 2mg (443ng/ml x4.5ml) = 12% reco	ــــــــــــــــــــــــــــــــــــــ
(11) 19 (10) - 12 10 (Pro	n.i.A
The concentrated sample was tot 7 fold more concentrated	than 11
dialyzed sample com though the volume was reduced 101	2/1
that some sample was lost to the concentrator. The di	~ /~ ~
was I fold more less concentrated than the indial co	4 7 2 4 B
indicating that some of the sample was lost in dialy	ALM IT TO
to the membrane or leakage.	5.18
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Save concentrated fraction 1.	<del></del>

Project No. 98 TITLE 1308F 8.9.91 Transfor Lien : Profrin A #2 Book No.___ m Page No.__ 1308 F RIGATION Transfection Protein 1 Perification #2. October 1991 PBS wash proteind disk, 11517 pH2.3 glycing west, PBS wash. Protein A (LAB 95-107) and Protein G (LUB 95-103) rolumn flow-Thru samples ente column - 6ml/ml Pass through column 3 Limes. Wash column with 25 ml PBS Elete Column with 12ml 15/16/4 cinx g H23 - collect fractions in to Int 211 Tis base Drad 1280 and 1260 of Fractions: A280 .209 -- Toss fractions 2an 13. Diolyze fraction / against PBS .- 2/ @ 530 PM. 820 pm - change busser; 400 of. 3 October 1991 Concentrale fraction 1 using Amicon conticion 30 concemtrator 1 load 2.3 ml into concentrator @ Spin 3000 PPM/301/406 J120 (3) load additional 2nd, reprat step 2 (9) final volume: 420nd = 10 foid concentration ELISA Protring A fraction 1: 176 ng/ml Protein A fraction 1 conventrated : 425 ng/ml To Pag No .. tnessed & Understo d by me, Date Invented by Date iolalai

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	PBS Column u	Josh -	Inglow	Toss		:
	185 Column Was	sh #2 =	Ing/me_			
	Fraction *1		600g/ml	: 6ml		
	Fraction #2		Orglul			
<u> </u>	Fraction #3		Ongland	<u> – Toss</u>		
	MELYCLIA SET		Onglul			
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Project No. 98

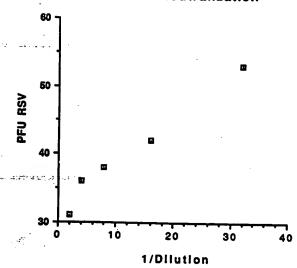
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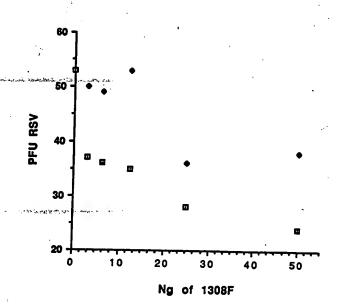
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ELISA: (10/18,10/21,10/22):  Sample Volume [1308F] Total 1308F  Gentines Mission 200ml 2020glad 40,4 µg  Flow Thru 200ml 14.7 ng/ml 2.9 µg  Fraction = 1 4.2 ml 3.7 ng/ml 15.5 µg  Fraction = 2 2 nml  **Idialyzed 2.4 nd 3.2 µg/ml 1.7 ng  **Idialyzed 2.4 nd 3.2 µg/ml 1.2 ng  **Idialyzed 2.4 nd 3.2 µg/ml 1.2 ng  **Idialyzed 2.4 nd 3.2 µg/ml 2.0 µg  **Idialyzed 2.4 nd 82 ng/ml 2.0 µg  **Idialyzed 3.4 nd 82 ng/ml 6.6 µg  **Idialyzed 3.4 nd 82 ng/ml 6.6 µg  **Idialyzed 3.4 nd 82 ng/ml 6.6 µg  **Idialyzed 1.2 ng  **Idialyzed 3.4 nd 6.8 ng/ml 6.6 µg  **Idialyzed 3.4 nd 6.8 ng/ml 6.6 µg  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  **Idialyzed 1.2 ng  *	* Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds
Sample Volume [1308] Total 13087  Gent and Midiam 200ml 2020glal 40.4 jug. Flow Three 200ml 14.3 regland 2.9 jug. Flow Three 200ml 14.3 regland 2.9 jug. Fraction #2 2 ml  # Idiah and Silfered 2.4 jul. 2.8 jugland 6.7 jug. # Idiah and Silfered 2.4 jul. 3.2 jugland 7.7 jug. # Idiah and Silfered 2.4 jul82 jugland 2.0 jug. # Idiah and Silfered 2.4 jul82 jugland 2.0 jug. # Idrahicer .75 jul. 8.1 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jugland 6.6 jug. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. 8.8 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 jul. # Idrahicer .75 ju	* Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds
Good times Medicin 200 ml 202 mglol 40.4 mg  Flow Thru 200 ml 14.3 mg/ml 2.9 mg  Fraction 1 4.3 ml 3.7 mg/ml 15.5 mg  Fraction 2 2 ml  # Idial and Silfered 2.4 ml 3.2 mg/ml 6.7 mg  # Idial and Silfered 2.4 ml .48 mg/ml 1.2 mg  # Idial and Silfered 2.4 ml .82 mg/ml 2.0 mg  # Idial and Silfered 2.4 ml .82 mg/ml 2.0 mg  # Idrational Silfered 3.5 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 6.6 mg  # Idrational Silfered .75 ml 8.8 mg/ml 7.7 mg  # Idrational Silfered .75 ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8.8 mg/ml 8	* Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds  * Total recovery of 10% seconds
Flow Thru 200ml 14.7 reglow 2.9 reg  Fraction #1 4.2 ml 3.7 reglow 15.5 reg  Fraction #2 2 ml  # Idialyzed 2.4 ml 2.8 reglow 1.7 r. p. g  # Idialyzed 2.4 ml 3.2 reglow 1.2 reg  # Idialyzed 3.4 ml .48 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 3.4 ml .82 reglow 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed 1.2 reg  # Idialyzed	* Total recovery of 40% second
Frankien of 4.2 ml 3.7 mg/ml 2.9 mg  Frankien of 4.2 ml  Frankien of 4.2 ml  Frankier of 2.4 ml  Frankier of 2.4 ml  Frankier of 2.4 ml  Frankier of 3.2 mg/ml  Frankier of 2.4 ml  Frankier of 3.2 mg/ml  Frankier of 3.4 ml  Frankier of 3.4 ml  Frankier of 3.4 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Frankier of 3.5 ml  Fra	* Total recovery of 40% second
Fraction of 4.2 ml 3.7 mg/ml 15.5 mg  Fraction of 2 2 ml  Fraction of 2 2 ml  Flain and Silvers 2.4 ml 3.2 pagend 6.7 mg  *Zdinkpred 2.4 ml .48 mg/ml 1.2 mg  *Zdinkpred 2.4 ml .82 mg/ml 2.0 mg  *Zdinkpred 2.4 ml .82 mg/ml 2.0 mg  *Icraticon .75 ml 8.8 mg/ml 6.6 mg  *Icraticon filtery .75 ml 8.8 mg/ml 6.6 mg  *Icraticon filtery .75 ml 8.8 mg/ml 6.6 mg  *Icraticon filtery .75 ml 8.8 mg/ml 6.6 mg  *Icraticon filtery .75 ml 8.8 mg/ml 6.6 mg  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icraticon for y's Column 1 = sin and 1 mg/ml  *Icrat	* Total recovery = / 40% reco  *  *  *  *  *  *  *  *  *  *  *  *  *
Fraction "2 2 ml  # Idialyzed 2.4 ml 2.8 mg/ml 6.7 mg  # Idialyzed 2.4 ml 3.2 mg/ml 7.7 mg  # 2 dialyzed 2.4 ml .48 mg/ml 1.2 mg  # 2 dialyzed 2.4 ml .82 mg/ml 2.0 mg  # Icratiscon .75 ml 8.1 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 6.6 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg/ml 2.0 mg  # Icratiscon filtery .75 ml 8.8 mg	# # # # # # # # # # # # # # # # # # #
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## ☐ Cos Supe



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rom Page No 1308 F Putificat			
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9/16 -> 9/10 9/16-79/20			
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add 1/2 of 8.9.91 10%FB		14-	
(total volume = ~250ml e			7
Wesh 2 almel bud volume columns	COY Harris To bid		
other Tony's lot with PBS.	1 Homen 2 g v Agul	274 04	A LUNA 10
7577 1831 12-12-17 1857		<del></del>	<del>-   -   -   -   -   -   -   -   -   -  </del>
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23 October 1991			
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DSP Column, Franchis #1- 5,50	/ >		
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11 Fraction "Z - 6.5m	(	0	<del>,   ,   -   -</del>
T : (1 C 1: 41-47	1 Semove 0,2m	K cach	
Tuny's Column, fraction #1 - 4.5 med	Soistedt Jub	-5; 5 <u>£</u>	0-2
fraction #2 - 2.3 ml			+ + -
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Project No. - 5 TITLE 1308 F Puntication: Homen Agerose Comperison Book No. العناقة 1 Page No._ 25 October 1991 ELISA: DSP Column Tony's Column Colema Flow Thru 63.5 ng/mlx(7.8mg) 41.0 ng/ml * (5.1 mg Fraction #1 1.08 mg/ml (5.944) 3.09 mg/al (13.9mg) 1.19 mg/ml # (6.5 mg) Fraction " dialyzad 3.18 mg/ol # (14.3 mg) 3.54 mg/ml (23mg) Fraction " Z, dialyzed 2.91 mg/ml *(18.9.5) *Tubal = 33,3 mg sunning (looding) the column at such a high flow rate officiency of binding of the 1308F 8 October 1991 Combine DSP fractions land 2 with Tony fractions land 2: ~40 mg/18 mt ml = 2,2 mg/ml Sauc 3ml in 15ml bube, pass remainder O.3 ml brd volume Protring A- Agarose Column,

D Pass flow Thru over column a swand kine ( Wesh column = 4.5 ml PBS, save waste 3 Elute column with 0,151 Glycine p 47.3 - collect ,25ml fractions into .25ml 211 Tris Base - Dialyze against PBS in Microdialyzer, 350ml, 2.5 hr 9 October 1991 ELI5A [1308F 2 Total 1308F Load 2.22 anglat 60 singland 33.3 mg 100% flow Thru 60.5 mg/ml 15ml 2.7% 0.91249 185 Wosh 12 ng/ml a4M 0.048,43 0.1% 20.1 mg/ml 0,45ml 9.05 mg 27.2% fraction 2 <u>.34</u> fractions 0 fractions 0 0 ₹o Page No.₋ tnessed & Understood by me, Date Invented by Dat

Project No. 45 TITLE 1308F Ports in the man | Proteins

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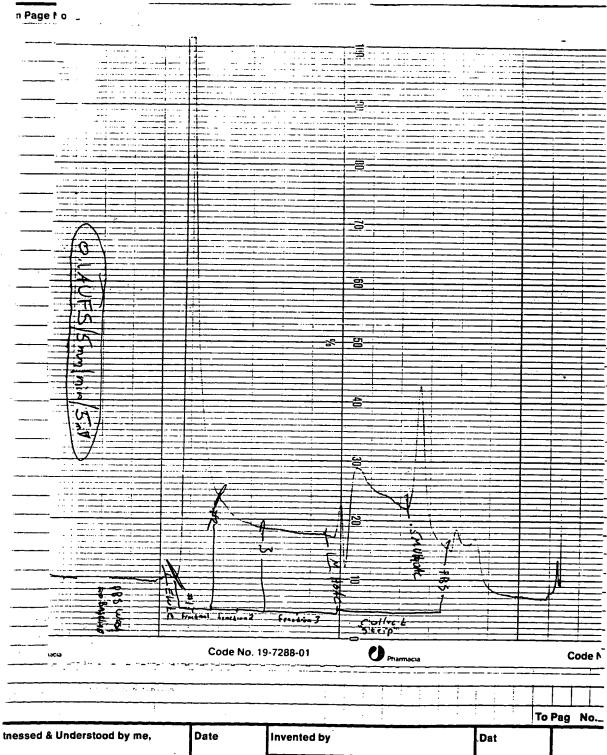
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Project No. 48
Book No. 48

## TITLE 1308F: SJ66 Co God & Human Purification



TITLE 1308 F: ST66COS POOL WHOMON Perifica Evon

Pr ct No. 98 Book No. 95

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42 - 1.	31 x10 6 cx (1	s/ml = 140	pal = 1.	83 ×108 C+	olls
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SJ66 Fucia #1:	STYD e	ntire volument	me into 50	oul spinne	· Luith
SJ66 Ficia #2 addition	- 5 d Pn	Lire value			ith 9n c > 1.61
SJ 66 Fucia #3:	stad on	Lire volum	e into 500.	L spinner	سائلا م
500 m		plume = 6:		z 22.06	
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					4		1	
- Wash = 2 bod	volumos 49	Lestie Acid			<del></del>			:
- Wash & 60ml	PBS, elu	ete p# 7.4 er	t end		; ;		İ	<del></del>
- load SJ66 Fue	12 43 110 - 4	14 (16.6 motol	×640ml	()	Rivel		<del>]  </del>	
tubing, pump 3	rtat 790	= 4 ml/min.	! I i	, ,			Acc	-6
- Wash = PBS c	ntil UV	trace rytur	ned to	basel	. <i>:</i>	-		+
- Elute = .5M N	JHyole ph	13.0, collect	4 ~60	l'free	tion:	9 24	4	
Lo pit 7.5-8.0	with 2	14 Tris bace	, ,			1		
- Wash Column E	PBS	, : !			7	+		+-
- Strip column =	400 Aces	Lic Acid; coll-	ctine	et ralis.	eluc	T	Pag	N.J.
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TITLE 1308F Purification: 566 Fucia #3

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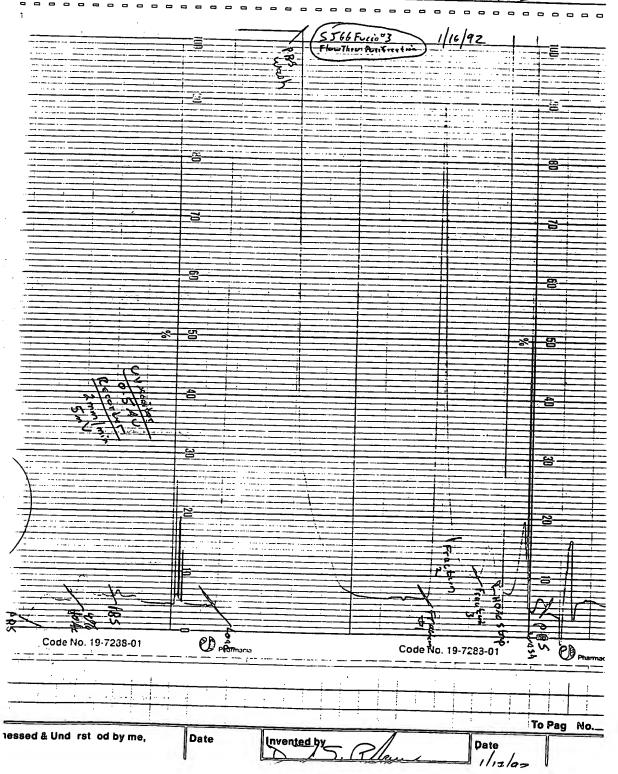
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<u> - D</u> ,	alyze 4 fra	ctions a	of 4%HOAc	Strip ag	ginst 41	2 PB5, 4%	, 3/2 /
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<u> </u>	inge buffer,	dialy Z	e 9/N.	_ · · · · · · · · · · · · · · · · · · ·		<del>-</del> .	
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A56	ay Samples						· ·
	Marketine . Balance in the	* •					; `
· <del></del> ,,	O Column San	np lė	13.77 mg/ml	x640ml =	8.81mg		1 1
				•	•		
	1 flow Three	<u>/</u>	9.01 seg Jul :	400 L = 0	2.22 mg		
<del></del>	1 flow Thiu #2		9.01 mg /ml.	240ml :	2-16mg	!	
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	D fraction al		370 uglal =	6.5 ml = 2.	4 mg	1 4	
	5 freetion 11.	inlyrol	311 ug/ml =	7.7ml = 2.	39mg	OD,80= .445	T= 318
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· · · · · · ·	O fraction "Z		89.7 mg/ml.	6.5ml - 0.	5.8 mg		1"
	D fragtion "Z	lialyzed	(83.0 mg/1	. 8.4ml: 0	· 7 mg	0 Drea = 1/1	1=8/4
		: :		1 : :		( i i	
- :	Tfreetin #3		32.4 mg/ml	. 7 ml : 0.	23mg		•
·	1 fraction "3	liglyzyd	27.3 mg/ml	= 7 pil = 0. x 9.5 ml = 0	26mg	CO. = .03	9=27.5
	· marinishishishishishishishishishishishishishi					•	
	@fraction #4		8.4 mg/ml x	4.5 mel = 0.0	038mg		:
	O freeton 44 d	inlyz +d	8.4 mg/ml x 7.0 mg/ml x	6.5ml = 0.	046mg	00280 = .0	22 = 15
						:	
	18 HOLE St	<u> </u>	21.7 reg/ml	×7.1 = 0.	152 mg	1055	
•	(1) 47 HOLE Strip	dialys ad	21.3 mg/ml	= 10.2 ml = 0	2.217mg	100	
) - C //	051						
10+ the	8.81 mg total.	11308F in	the starting	59mple, 01	1/y 5.99m	19 (68%) C	an be
4500	cated tor in 7	the +low	- thru and :	the frect	rans. Som	Emay he	eve bre
los Ł	in the PBS c	vesh, bez	32% STEM	sa bit h	بهم	:	1 1
72 1	(222) C			<u>i</u>		· · · · · · · · · · · · · · · · · · ·	1 .
3.4 mg	(39%) of the		F can be a		for in t	Le fraction	200
<u>callect</u>	ted. The trailing			rec tions	may be	due to to	· high
<u></u>	Flow rate d.	sing elu	tion (4 me/m	رزند كار سكر سرز	11 decre	ese the f	low re.
during	the elution	in the	feterr.	<del>-                                    </del>			
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front on 3 = 1	1.7 ml			!				$\Box \top$	T	T		T
fraction 2 = 3		+					į.	1	_	j		
	11.4ml	1 1 .				<u> </u>			$\bot$	$\perp$	$\perp$	$\perp$
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Rymove samples to	15 ml poly	throby/xu	e to b	<u> </u>				!		-		_
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~ 9.5ml) aq	ginst 2l	PBS O/N	4.00	<u> </u>			1					. :
Dialyze 3 fraction 17 January 1992	ns (fraction	n 1= H+40	<b>≠</b> ," ~	10ml	G.	u Le	<u>:,</u> z	-	4.	1	f.	٠.٠
7.1		<u> </u>	N.A.	:	:							
- Strip column = 4961	yote, was	h = PBS	5 £01	z in	PB	<u>'s /</u>	/zi	1.			:	i
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Elute Slowly (soll 2 ~ 2570 476 Hode fractions.		<u> </u>	<u> </u>	<u>د م ۲</u>	ر ع. إ	-	Spi	K-E	@/c	210	,	<del>bst</del>
Wash the columnia											-	
Wash the column =	- 60 ml PB	5 011 4	100-	1 1				+	+	1 ;	-	-
Load the 1st + zac (Blux-Yellow pump	. N		1.1	11 :	` '				P	3.1	1	-
(Blux- Yellow pung	stiby sot	ting 500)	. 54.	2 . +	: ح	5 6	بدرد				0	20
Load the 150 + 201	- column Flow	- thru from	1/5/92	: on £	o ti	Le	cal		1_	1	9 6	
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Lith PBS.	<del> </del>	· · · · · · · · · · · · · · · · · · ·	· ·	· ·				-				
Kinse the GOHIGEN	lgarose colc	mn = P	BS, S	Lip	2 1	1%	HO,	lei a	24 4	Lr.	In s	e (
P	<u> </u>	<del></del>		<del>                                     </del>		<u> </u>		_ !-	$\perp$			L
Since there is 2.3  will extempt to  Ringe the GOXHIGHT  LITH PBS.	purity it.			+		!	<u> </u>		-		L	
Since there is 2.	38 mg (271	e) of 47	<u> </u>	acking	<u> </u>	508	<u> </u>	· *	he	₽/e	بد.	th.
SJ66 Fucia #3 Flow Thru	Veritication	<u> </u>							-	<u>!</u>	<u> </u>	: 
STATE OF THE THE	<u> </u>									<b>↓</b>	<u> </u>	<u> </u>
more GOCH Igh Agaros	e and por	ra largy	r 6 . d	volum	z Co	lea	مند	tt	٠.	f_t	٠,٠	٠.
The Packing	99d 9/1	of the hi	308F	6000	n £	6	Sla.	. 1	۱		<b>-</b> ,	11
(the last 240ml load	*47. Appar	ently the	e role,	mn Cs	PRC	بهلان	u	<u> </u>	XC	- J.	<u>.</u>	20
local ad onto the column	) and 65	o came	throc	gh ir	th.	<u>e_</u>	<u> </u>	دم	lec t	re d	·£/	<u>د بد</u>
3) 4% of the hisost o	YME THOSE	gh in the	= (34	Collec	421	. +1	دب	thre	ر )د	the	<u>Çe e</u>	st
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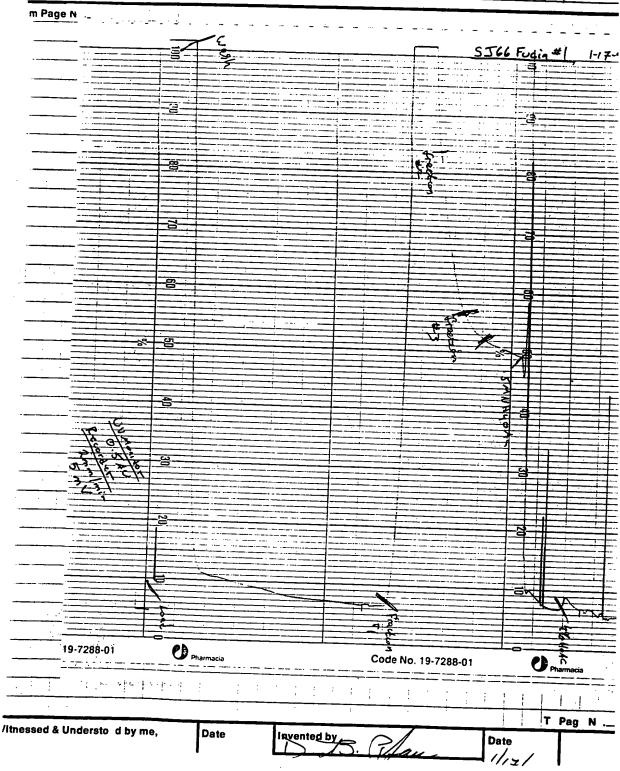
Project No. . 98
Book No. _____

TITLE (308F Puritication 3366 Fucia #3



Project No. . 98 TITLE 1308 F Perification SJ66 Fucia # 3 and #/ __ Jok No<u>. 95</u> From Page No._ <u> Assay:</u> (DColumn Sample: 4.01 ug/ml x 640ml = 2.57 mg @Flow Thru: Ong/ml 1 Fraction 1: 101.8 ug/ml x 11.4 ml = 1.16 mg 1290= ,202 = 1:44 mg/ml 10.8 mg/ml = 8.3ml = 0.09mg 1 Fraction 2: 6.0 ug/ml = 11.7ml = 0.07 mg -- Slower elution rate might be giving a tighter elution, but aire wasn't as heavily looked as the 1/16 column it is not a fair com -- Only 51% recovery (1.32mg) of the input semple was -- Tossfraction #3, since its eletion was aided by the addition SJ66 Fucia #/ Purification Will purify the 11308F from the SJGG Furing / Conditioned medicin at 11. que Inda 600 ml = 6.8 mg). Will elute the column with 3MK to see Dif it gives a botter pluting profile and @ if the product substantially different than the SMUBLORE PHS eluted material. -- Rinse GaHIg6- Garese column ( Bal byd volume) with 60ml PBS, wash 476Hole, rinse & ~ soul PBS -- pH7.4 et end. load Column at 27.5 ml/min (blux-y+1/on filing, 500) -- Wash column = wooml PBS, UV trace to baseline -- Elute Slowly (setting 320) with 3M KSCN. Collect Dinlyre Fractions 4hrs against 2 PBS dialyze of To Page Witnessed & Understood by me, Date invent d by

TITLE 1308 F Purifica & n. SJ66 Fucia #1



From Page No			<del>"</del>			
20 January 1992 Assay				·	<u>·</u>	
Assay						
				· · · · ·		
O Sample:	8.92 mg/	ul × 600 ml : 5.35 mg		······································		
					•	
(2) Flow Thro#1:	2.15 ug/ml	2 x 410ml = 0.88 mg				÷
3 Flow Theu #2:	15.23 mg/	ul × 190ml = 2.89mg			1	
					Ti	
1 Fraction #1:	747 mg/m	l × 9.5ml = 7.1mg		ţ.		
@ Fraction #2:	119 seg/m	( x 9.0ml = 1.07mg - ]	Sielva	./ 5	7-1-	_
	- J				7	
6 Fraction #3:	26.75 mg/s	ul = 6.7ml = 0.18mg	: ;	iii		
Evenate slow flowest	e the capa	city of the solumn is ex	c	1		
capacity of the colo	ma that is	asky of the column is example of the	. Sh.			
	;			79.5		70 4 0 / 1
8.35mg were eletro						
but there were only	5.35mg	in the starting sample.	Air			
material "lost" from	n: the 576	GENERA WAS CHAS WAS NOUTE	2/11/2	4 6	7	4
with SMN4 ode pH3	er 4 Toder	bicheid, but it did plute	46	7.44	-961	J II
is the cost, then the	se samples	may not be useful since	Same	- PH		, <u> </u>
them have been sob	ested to s	several rounds of acid wa	م شرط ی		- pr-	
	<u> </u>		-			
31 January 1992	<del>- i</del>					
Concreteate samples	SJ66 Fucio	=3 fraction #1 (LNB95.	136.)	:		
Trat Cratifing C	encontrators	(Amicon = 4306)		:		
O'Mate Human	Ig G Soln: C	7.6 ml 2 17.8 mg/ml - 42.5 ml	: = 2	5100	hul	
OD280 =	·321 = 2	29 seg/ul				
2) load 11ml	229 mg/ml	into centriprep 30 (2.5	19 ma	) :	1	
3 Spin 10 min,	2400 PPM	Brokman GPR tabletop co	en dei fe	90		
(F) decant silts	ate, spin	on additional 9 min as a	bour.	0		
5 Remove re		2.2 ml, OD, 00 = 1.411		1		
= 1.01.	ng/rul × 2.		8%	1400	V46V	
1 10 10 10 10 10 10 10 10 10 10 10 10 10		J				TT
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Book No. 75 TITLE \$\$ 1308 F. Pusincation: \$\$ \$566 Fucia #3

O load	5ml PBS				+	<del>-                                    </del>
	10', 2400 RPM, d.	ont Eltrati	e +	ente to		
			1 2 2	10104	•	<u> </u>
SJ66 Fucia #3	GOHIGO Aggrose Fr	action #1 ( wB	95-136)	Concre	tro trò	
	7.5 ml onto prewest	rd Centupiro 30,	Spin lot	E 400 E P.A	, , ,	<u> </u>
dicent	filtrate (4.5ml), se	pratspin, 41.				
(3) Remon	ic Pietentale: Fin	al volome = Iml	A (1:	40) = .0	76	. ;
	= 2.17mg/ml	* Inl = 91%	recover	y		
Az	po retentate Condilute	1) = .006		1 1		
+						
SJ66 Fucia + 3 Ge	KH Ig G. Agarose Frect.	on #2 and #3 Ca	ene ratear	tion (ex	295-13	S
() lood 15	action 42 (8-2 and 481)	g/me) + fraction = 3	(9.4ml "	27.8	ما الله	
Same	crotrips + p 30 that fre	ction " I was conce	m frated	PM -	+	
Spin 10	2400RPM, decent 6.5	ml siltrate		1-1-	44	11
(3) Spin 10	1,2400 RM, derent f.	trate (5.5 ml)	\$ 14.50	me silt	so te	Lotal
(1) 30/10 5	2400 EPM decent 6	· Sal Gitrate	Azza	Eldrote -	003	. +08.
G/WET 27	66 Fucia #3 Flow Thro Pur	terration fraction	#1 (cn8	*5-139\ 1	to the	
(P) \$	tate cop( 11.2ml x 1	14 mg/ml). Spin 10	, 2400 R	em, bor	998-	+
(2) Sain -1	Zycoppin, decent.		<u> </u>		+	<del></del>
P-1	2400 Rem, deront. C	O. D. leltrate	= .004	<u> </u>	+ +	+
	= 2.38	- 949	1.32 mg	Jane .	++	<del>                                     </del>
		= 94% ceco	VEIY.		++-	<del>                                     </del>
4 Pool SJEGER :: 43	for time to commente	11 5505		-	++	++
fraction #1 con	cratiale:	3.16 -	5 FF4s Eron	2+3   2386	dera 3	- flyn7
	(2.17 mg/ml = band)+	(1.32 ma/ml x 1.8 mi	1 = 3.4	19. 12	8-0	<del>                                     </del>
	= /.2	Smalul	<del>-                                    </del>	77		T
22 _m	icron filter (Amice	-4454) AL 0170	glionos	+ i= 5	- 0.5	1
alije	ots and one 0.3a	laliquet.				
			Tubel	· Tim Tame	ne 1-22.	12
00,28	n=2.12 = 1.5	Ing Incl		Charles F		
		9,	Tubes:			
Label		Top:	Tubre 4:			
	95-142		Tubes			
	<b>≫</b> 1.21.92		Tube L:	DSPuse.	To Pag	e N
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fraction 1 : c		= 87 mg/ml x 2,	ul = 174 mg		111
free time 1:	- 120	- 07 1 / -		<del>-                                    </del>	
Deilyses buffe	F - 0005	<del> </del>			+++
Chile 1 10	15 E PES:	<u> </u>			++
Remove samples to 1  butter, blanky & again	5 ml polyprop	y/rne tubes; sun	l o) of somp	1- ond	of diel
Remain	- 0 1				
Change dialysis 6	utter, co	ntinue dialyzi	for 4 hrs	• + + +	
Charles !	10				
22 January 1992		·	•-	i :	
22 5 1992			-		
dialyze fractions ag	gins + ZLP	85, 4°C, 0/W.			
dieles C 1:	2	11/	<del></del>		_ _ _
Elute = 3M KSCA	, collect	4 tractions of	3-6ml.		
El 34 VSC	./ ./ .		<del></del>		+
to be aren.					$\bot \bot$
Brown is was	adjes trd.	for KSCN, secon	der set to	2nv Car	785 L
R R	~ 4.5 × 21	hatof PBS(PB	S Lore 1, me @ 6	% KSCL	250%
Wash column & ~7	oul PBS	to stable basi	line Note:	the cv	6000/11
		-	<u> </u>		
Load column, RT.  2 aliquets, #1  thruin superat	e deby 19	bulat "Terminal Fl	-uThev."	-	
2 aliquels, 41	~ 280 ml a	nd we a 250ml. (	Collect the	VTT 1/9	+ 201
Column, RT,	4ml /min (	bluz-yallow tobe, 7	90); collect	flow	thre in
					1
- Strip column wit	4 20ml Xº	ID 3/1 KSCN, CM	e with 50m	£ 985.	
				0	783.
rosin (BBL X) (5 11	ma 13543	10± 059 F. 1883). A	Singe Colum	10,000	- <del>* * * * * * * * * * * * * * * * * * *</del>
- Increase bed volum	e of the	Ga H I.G. Logiose	Col	1- 0	••••
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SJ66 Fucia #2 Pur I mill purisy the a higher capacity co	dumn and	ksew eletion	114 C6	ndi Liened	mydie
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Project No. 98

TITLE 1308 F Purifica -ion: SJ66 Fucie #2

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Pool SIGGERIANZ	604 In & 190	rose frocto	·n #1, 2, 3.	4: 4.96m	116.6-1	,	:
O Spin 10', 2400	RPM. 4°C. B	e, kma GP	GR in C	24 :: 0:20 3	0		†
Odreant 3.4ml	Silter :	2)	4 4	:		:	+
(3) Spin (0', 2400, 4					<del></del>		<del>:                                    </del>
( Spin 15', 2400, 1							<del>: :</del>
OS: Island	C. Dergyt	3.1 ME 1.1	£148E.08	· · · · · · · · · · · · · · · · · · ·	3>	:	1 :
Spin 15', 2400, 1	C. Decent	2 7 1	travec: Ob.	14000, 4 .	/ 0 0		+
( Spin 51, 2400, 4	c. Kemovi	e 3.7 ml c	exentate	00280-	1.709 =	/:30	, mg / m
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		: 1 !		1 . 1		<u> </u>	44
Filter sterilize	: (Gelman	¥4454,	· 2um),	aliquot	in 6-	0.5	l one
1-0.3 ml a	liqueds.		1 '		<u> </u>		
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Road Odgo =	3.6	1.80 =	1.29	a hel	Tube 1:	يها بهوا	-re 1.
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3 January 1992	<del></del>						$\bot \bot$
Hommizel 1308F Por	fication Preparation	<u>1/92</u>		<u>:</u>	· · · · · · · · · · · · · · · · · · ·		1
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Commenterior: 1.29 mg land.  Abgrosts: 6:0.5 ml , 10.3 ml						$\rightarrow$	<del>-</del>
Distribution: Tube I to JT 1-22-92				!			$\mathcal{L}$
Tube 2 to CHE 1:13-92							To Pag
and the second second							10 Pag

TITLE 1308 F Porification: 5 16	6 Fucia # 2 + #3	Pr at No. <u>98</u> Book No. <u>95</u>
From Page No		
Assay Results (Assay	lone 1.83.92)	
SJ66 Fucia 2 Pentical	roi	
	11.28 ug/ml	
2 Flow Thew #	1: -0-	
@ Flow Thew #2	: 1.87 mg/ml	Toss These.
	_	
- (4) final 3 ml of	Flow Thee: 2.86 pag /ml	
		<del>-</del>
(5) Perified, con	continted hisospas-	145; 1.0/mg/ml
		, ,
Apparently the cape	ricky of the columnis	low, since all of the A
out of the firs	+ 280ml of samply,	but as the loading of
Ab was absorbed	by the column	J
The ELISA shows	only 1.0/mg/ml HI3	108F in the final season
whereas by from	1 20 1	
7	- Elere is 1.69 mg/v	1. Part of this discrepen
due to the works	Conteminent	1. Part of this discrepon
h1308F95-142 is ELISA and Lego		1 but only 1.51 mg/ml b
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h1308F95-142 is ELISA and Lego	1.89mg/ml by ELTS	
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h1308F95-142 is ELIST and Lego 14 February 1992 Confirmatory EL	1.89mg/ml by ELTS	d but only 1.51 mg/ml b to be expressed for both
h1308F95-142 is ELISA and Lego 14 February 1992 Confirmatory EL H1308F95-142	1.89mg Incl. by ELTS. Feedings next.  ISA  : 3.1mg/ml @ 1.	t but only 1.51 mg/ml b to be repreted for both
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h1308F95-142 is  ELIST and Lego  14 February 1992  Confirmatory EL  H1308F 95-142  H1308F 95-145	1.89mg Inc. by ELTS Feadings next  ISA  : 3.1mg Inc. @ 1.  : 1.60mg/ml @ 1.  1.84mg/ml @ 1	to be tonly 1.51mg/ml b  to be expressed for both  'to,000 dilution)  :20,000 dilution)  1.72 m  :40,000 dilution)
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Project No. 98 TITLE #1308 F Porifice -con: 95-142, 95-145 3 m Page No._ 20 February 1992 ABSORBANCE 95-142 450.0 400.0 350.0 250.0 THRESHOLD 1 0.050 ERMPLE 001 15:05 CACFE HAVELENSTH 276.4 nm (NAX) 250.4 nm (MIN) DATA 0.203 ABS 0.071 ABS 95-145 [ne] 550. 0 500.0 450.0 400.0 350.0 300.0 250. 0 0.4 0. 050 CYCLE 12:05 DATA 0.179 ABS 0.087 ABS = 1.28 mg/ml T Pag N .. Date itnessed & Underst od by m , Invent d by Dat 2/. 1

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TITLE 1/1308 F Peridica Line 15-142, 95-145

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1,89 mg/ml 3,10 mg/ml	1.31 mg/ol	1.01 mg/d	1.29 mg/L	= 1.30
2.70	140 14	1. Flinglot	<del>                                     </del>	= 1.3
2.70 mg/ml X=2.56 mg/s	7-140 CA	1.2. Freglet	1.28 mg/wl	
	7-11-18 mg/al.	X=1.33 mg/ml	7= 1.29 mg/al	
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## Page No. Prification  CH1129 end H1308FS71  March 1992  Thaw Cos supro (LNB 95-53-156) at 40°C 0/N  H1308FS71  Alu-2/10 37ml @ 2.75mj/ml = 103mg  2/10-2/10 42ml @ 3.90mj/ml = 140mg  2/10-2/10 42ml @ 1.97mj/ml = 83mg  CH1129  Alu-2/10 26ml @ 5.90mj/ml = 116mg  Alu-2/10 26ml @ 5.90mj/ml = 116mg  Alu-2/10 26ml @ 5.90mj/ml = 116mg  Alu-2/10 26ml @ 5.90mj/ml = 194mg  March 1992  - Pour 2 /ml & 1 d volume Gal H JG-Agaress (Sigma) Columns, L  mith BB5, I and somplies by glovity flow a Jord/min.  Wesh columns = PB5  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjected).  - Collect 3 fractions of H1308F-871, 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PB5 in mice dialyzer.	Page No. Putification  (H1129 and H1308FS71)  (arch 1992  Thaw Cos sepro (LNB95-53+56) at 400 0/N  H1308FS71  2/11-2/111 37ml @ 2.78mg/ml = 103mg  2/11-2/112 36ml @ 3.90mg/ml = 140mg  2/15-2/120 42ml @ 1.97mg/ml = 83mg  CH1129  2/11-2/12 26ml @ 4.45mg/ml = 116mg  2/11-2/12 26ml @ 4.45mg/ml = 116mg  2/11-2/12 26ml @ 4.45mg/ml = 116mg  2/11-2/12 26ml @ 2.93mg/ml = 149mg  2/11-2/12 28ml @ 5.90mg/ml = 149mg  2/11-2/12 28ml @ 5.90mg/ml = 194mg  2/11-2/12 28ml @ 5.90mg/ml = 194mg  2/11-2/12 28ml @ 5.90mg/ml = 194mg  - Poer 2 Ind bid wolume Galt Info-Againese (Sigma) Columns Into Perform and Java Minio)  - Wesh columns = PB5  - Elute = 3/11 KSCN (3/1 in H20, pH-7.5 unadjected).  - Collect = 3 fraction, of H1508F527/ (Fractions of CH/129.)  - Dia/yze fractions   5 hr against PB5 in miccodiolyzer.		ct No. <u>198</u> ok No. <u>1</u>	TITLE CHI129 and	1 H13 3F-871	Porificate
March 1992  Thaw Cos septs (LNB95-53+56) at 4°C O/N  H1308F-571  Alu-2/10 37ml @ 2.78mg/ml = 103mg  2/10-2/10 36ml @ 3.90mg/ml = 140mg  2/10-2/10 42ml @ 1.97mg/ml = 93mg  CH1129  Alu-2/10 26ml @ 4.45mg/ml = 116mg  Alu-2/10 26ml @ 4.45mg/ml = 116mg  Alu-2/10 26ml @ 5.70mg/ml = 116mg  Alu-2/10 26ml @ 5.70mg/ml = 165mg 275mg total/86ml  Florz/10 32ml @ 2.73mg/ml = 94mg  March 1992  - Poer 2 Ind brd volume Gath Int-dgaress (Sigma) Columns In 118 PBS, I and Somplers by giroity flow (~ 3ml/min)  - Wesh columns = PBS  - Flute = 3/11 KSCN (3/1 in H20, pH-7.5 unadjected).  - Collect 3 fractions of H1508F-57/, 4 Fractions of CH1/109.  - Dia/xze fractions 1.5 hr against PBS in miccodiolyzze.	(A1129 end H1308FSTI  Para Cos sepro (LUB 95-53-751) at 40C 0/N  H1508F-STI  2/11-2/12 37ml @ 2.78 mg/ml = 103 mg  2/11-2/13 36ml @ 3.90 mg/ml = 140 mg  2/11-2/13 42ml @ 1.92 mg/ml = 83 mg  CH1129  2/12-2/13 28ml @ 1.92 mg/ml = 116 mg  Aluzin 28ml @ 1.93 mg/ml = 116 mg  Aluzin 28ml @ 2.93 mg/ml = 155 mg 375 mg total/86ml  Ilinzin 28ml @ 2.93 mg/ml = 94 mg  March 1992  - Pour 2 Inl bid volume Gall IgG-dgarese (Sigma) Columns III  with PBS, I and somplies by giverity flow (~ 3 ml/min)  - Wesh columns = PBS  - Elete = 311 KSCN (311 in Have, pH ~ 7.5 unadjerted).  - Collect 3 fraction, of H1308F-STI, 4 fractions of CH/129.  - Din/yzx fractions 1.5 hr against PBS in micco dielyzxx.	n Page No				
March 1992  Thew Cos septs (LNB95-53-851) at 40C 0/N  H1308F-571  2111-2111 37-16 2.78 ng/ml = 103 ng  2111-2112 35-16 2.78 ng/ml = 140 ng  2111-2120 42 ml @ 3.90 ng/ml = 140 ng  2111-2120 42 ml @ 1.97 ng/ml = 83 ng  CH1129  2111-2120 26 ml @ 4.45 ng/ml = 116 ng  4111-2120 26 ml @ 5.90 ng/ml = 165 ng  2112-2120 32 ml @ 5.90 ng/ml = 94 ng  March 1982  - Poer 2 /ml & sd volume Gatt IgG-Agaress (Sigma) Columnian  Wash Columns = PB5  - Flute = 3M KSCN (3M in H20, pH-715 unadjected).  - Collect 3 fractions of H1508F-571, 4 fractions of CH1/129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.	Thaw Cos super, (LNB 95-53+56) at 40C o/N  H1308F-571  211-21111 37-16 @ 2.78-15/101 = 103-113  211-2112 36-16 @ 3.92-15/101 = 140-15  2112-2120 42-16 97-15/101 = 83-103  CH1129  211-2120 26-16 97-15/101 = 116-15  2112-2120 26-16 97-15/101 = 116-15  2112-2120 26-16 97-15/101 = 116-15  2112-2120 26-16 97-15/101 = 116-15  2112-2120 26-16 97-15/101 = 116-15  2112-2120 26-16 97-16/101 = 116-15  2112-2120 26-16 97-16/101 = 116-15  2112-2120 26-16 97-16/101 = 116-15  2112-2120 26-16/101 = 116-15  2112-2120 26-16/101 = 116-15  2112-2120 26-16/101 = 116-15  2112-2120 26-16/101 = 116-15  2112-2120 26-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-15  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16/101 = 116-16  2112-2120 27-16  2112-2120 27-16  2112-2120 27-16  2112-2120 27-16  2112-2120 27		CH1129	HISOPEST	1	
Thew Cos sepres (LN895-53-156) at 4°C 0/N  H1308F-571  2111-21111 37ml@ 2.78mg/ml = 103mg  2111-2112 36ml@ 3.90mg/ml = 140mg  2111-2120 42ml@ 1.97mg/ml = 83mg  CH1129  2111-212 28ml@ 5.90mg/ml = 116mg  2111-212 28ml@ 5.90mg/ml = 165mg  275mg total/86ml  flortpo 82ml@ 2.93mg/ml = 94mg  March 1992  - Poer 2 Included Somples by grovey flow (~3ml/min)  with PBS, Isad Somples by grovey flow (~3ml/min)  - Wash columns = PBS  - Elete = 3M KSCN (3M in H20, pH-7.5 unadjorited).  - Collect 3 fractions of H1308F-571, 4 fractions of CH1129.  - Dialyze fractions 1.5 hr against PBS in misco dialyzer.	Than Cos super (LNB95-53.756) at 40C 0/N  H1308F.571  2111-2114 37ml @ 2.78mg/ml = 103mg  2111-2114 37ml @ 3.90mg/ml = 140mg  2112-2120 42ml@ 1.97mg/ml = 83mg  CH1129  2111-2120 42ml@ 1.97mg/ml = 116mg  Alu-2112 28ml@ 5.90mg/ml = 165mg 27.5mg total/86ml  1/12-2120 28ml@ 2.93mg/ml = 94mg  Gerch 1992  - Pour 2 /ml bid volume Gatt IgG-dgatose (5:gma) columns; 1.5mg  with PBS, load somplers by gravity flow (~ 3ml/min)  - Wesh columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F.87/ 4 fractions of CH/129.  - Dialyze freetions 1.5 hr against PBS in miccodiolyzer.			ENG 11 13981 ST		
HISOSF.STI  2/11-2/14 37-ml @ 2.78-mg/ml = 103 mg  2/14-2/15 36-ml @ 3.90-mg/ml = 140 mg  2/14-2/20 42-ml @ 1.97-mg/ml = 83 mg  CHI129  2/11-2/20 42-ml @ 1.97-mg/ml = 116 mg  2/11-2/20 28-ml @ 5.70-mg/ml = 165 mg  2/11-2/20 32-ml @ 5.70-mg/ml = 94 mg  Harch 1992  -Pour 2 Ind bid volume Gatt IgG-dgarose (Sigma) Columns; with PBS, Isad Somplies by groupy flow (~ 3-ml/min)  -Wesh columns = PBS  -Elute = 3M KSCN (3M in Hoo, pH-705 unadjected).  -Collect 3 Spaction, of H1308F.87/ 4 fractions of CH/129.  -Dielyze fractions 1.5 hr against PBS in miscodiolyzer.	HISOSF-STI  2/11-2/14 37ml @ 2.78 mg/ml = 103 mg  2/14-2/15 36ml @ 3.90 mg/ml = 140 mg  2/14-2/15 36ml @ 3.90 mg/ml = 140 mg  2/12-2/10 42ml @ 1.97 mg/ml = 83 mg  CHI129  2/10-2/17 28ml @ 5.90 mg/ml = 116 mg  2/10-2/17 28ml @ 5.90 mg/ml = 165 mg  2/10-2/17 28ml @ 5.90 mg/ml = 94 mg  4/2006 1992  - Poer 2 /ml bid volume Gatt IgG-dgarose (5.9ma) Columna, Lo  with PBS, load somples by gravity flow (~ 3 ml/min)  - Wash Columns = PBS  - Elute = 3M KSCN (3M in Hoo, pH-7.5 unadjected).  - Collect 3 fractions of HI308F 871, 4 fractions of CHI/T2?.  - Dialyze fractions 1.5 hr against PBS in miccodialyzer.	March 1992				
HISOSF.STI  2/11-2/14 37-ml @ 2.78-mg/ml = 103 mg  2/14-2/15 36-ml @ 3.90-mg/ml = 140 mg  2/14-2/20 42-ml @ 1.97-mg/ml = 83 mg  CHI129  2/11-2/20 42-ml @ 1.97-mg/ml = 116 mg  2/11-2/20 28-ml @ 5.70-mg/ml = 165 mg  2/11-2/20 32-ml @ 5.70-mg/ml = 94 mg  Harch 1992  -Pour 2 Ind bid volume Gatt IgG-dgarose (Sigma) Columns; with PBS, Isad Somplies by groupy flow (~ 3-ml/min)  -Wesh columns = PBS  -Elute = 3M KSCN (3M in Hoo, pH-705 unadjected).  -Collect 3 Spaction, of H1308F.87/ 4 fractions of CH/129.  -Dielyze fractions 1.5 hr against PBS in miscodiolyzer.	HISOSF-STI  2/11-2/14 37ml @ 2.78 mg/ml = 103 mg  2/14-2/15 36ml @ 3.90 mg/ml = 140 mg  2/14-2/15 36ml @ 3.90 mg/ml = 140 mg  2/12-2/10 42ml @ 1.97 mg/ml = 83 mg  CHI129  2/10-2/17 28ml @ 5.90 mg/ml = 116 mg  2/10-2/17 28ml @ 5.90 mg/ml = 165 mg  2/10-2/17 28ml @ 5.90 mg/ml = 94 mg  4/2006 1992  - Poer 2 /ml bid volume Gatt IgG-dgarose (5.9ma) Columna, Lo  with PBS, load somples by gravity flow (~ 3 ml/min)  - Wash Columns = PBS  - Elute = 3M KSCN (3M in Hoo, pH-7.5 unadjected).  - Collect 3 fractions of HI308F 871, 4 fractions of CHI/T2?.  - Dialyze fractions 1.5 hr against PBS in miccodialyzer.	-T/				
2/11-2/14 37ml @ 2.78mJml = 103mg  2/14-2/17 36ml @ 3.90mJml = 140mg  2/12-3/20 42ml @ 1.97mJml = 83mg  CH1/29  2/12-3/20 42ml @ 4.45mJml = 116mg  Alu-2/12 26ml @ 4.45mJml = 116mg  Alu-2/12 26ml @ 5.90mJml = 165mg 275mg total/86ml  2/10-2/12 32ml @ 5.90mJml = 94mg  March 1992  - four 2 /ml bid volume Gatt IgG-Agaress (Sigma) Columns, I  with PBS, load samples by giveity flow (~ 3ml/min)  - Wesh columns = PBS  - Elute = 3M KSCN (3M in H.O., pH ~7.5 unedjected).  - Collect 3 fractions of H1308F-S7/2 4 fractions of CH/129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.	2/11-2/14 37ml @ 2.78 mg/ml = 103 mg  2/14-2/17 36ml @ 3.90 mg/ml = 140 mg  2/17-2/20 42ml @ 1.97 mg/ml = 83 mg  CH1129  2/12-2/20 42ml @ 1.45 mg/ml = 116 mg  2/12-2/20 26ml @ 4.45 mg/ml = 116 mg  2/12-2/20 26ml @ 5.90 mg/ml = 165 mg 275 mg total/86ml  1/12-2/20 82ml @ 2.73 mg/ml = 94 mg  Yarch 1992  - Pour 2 /ml brd volume Gatt IgG-Agarose (5:9ma) Columnique  with PBS, lood samples by grovity flow (~ 3 ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F-871, 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in micco dialyzer.	1 haw Cos sep	pro (LNB9	5-53+56) at	40C 0/	u
2/11-2/14 37ml @ 2.78mJml = 103mg  2/14-2/17 36ml @ 3.90mJml = 140mg  2/12-3/20 42ml @ 1.97mJml = 83mg  CH1/29  2/12-3/20 42ml @ 4.45mJml = 116mg  Alu-2/12 26ml @ 4.45mJml = 116mg  Alu-2/12 26ml @ 5.90mJml = 165mg 275mg total/86ml  2/10-2/12 32ml @ 5.90mJml = 94mg  March 1992  - four 2 /ml bid volume Gatt IgG-Agaress (Sigma) Columns, I  with PBS, load samples by giveity flow (~ 3ml/min)  - Wesh columns = PBS  - Elute = 3M KSCN (3M in H.O., pH ~7.5 unedjected).  - Collect 3 fractions of H1308F-S7/2 4 fractions of CH/129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.	2/11-2/14 37ml @ 2.78 mg/ml = 103 mg  2/14-2/17 36ml @ 3.90 mg/ml = 140 mg  2/17-2/20 42ml @ 1.97 mg/ml = 83 mg  CH1129  2/12-2/20 42ml @ 1.45 mg/ml = 116 mg  2/12-2/20 26ml @ 4.45 mg/ml = 116 mg  2/12-2/20 26ml @ 5.90 mg/ml = 165 mg 275 mg total/86ml  1/12-2/20 82ml @ 2.73 mg/ml = 94 mg  Yarch 1992  - Pour 2 /ml brd volume Gatt IgG-Agarose (5:9ma) Columnique  with PBS, lood samples by grovity flow (~ 3 ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F-871, 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in micco dialyzer.	HIZORFICZI	<u> </u>			<del></del>
2/14-2/15 36 of @ 3.90 usfel = 140 mg 326 mg total /115 md 2/12-2/10 42 ml @ 1.97 mg/ml = 83 mg  CH1129  2/10-2/10 26 ml @ 4.45 mg/ml = 116 mg 2/10-2/10 28 ml @ 5.90 mg/ml = 165 mg 275 mg total / 86 ml  5/10-2/10 32 ml @ 2.93 mg/ml = 94 mg  March 1992  - Poer 2 /ml & st d volume Ga H IgG-dgarese (5 igms) Columns; usith PBS, load somplers by grovity flow (~ 3 ml/min)  - Wash columns = PBS  - Elute = 3/1 KSCN (3M in H20, pH-7.5 undjected).  - Collect 3 fractions of H1308F. SFI, 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in misco dialyzer.	2/14-2/15 36 ml @ 3.90 mg/ml = 140 mg 326 mg t=tal/115 ml 2/12-2/150 42 ml @ 1.97 mg/ml = 83 mg  CHI129  2/11-2/150 26 ml @ 4.45 mg/ml = 116 mg  2/11-2/150 26 ml @ 5.90 mg/ml = 116 mg  2/11-2/150 28 ml @ 5.90 mg/ml = 94 mg  Yearch 1992  - Poer 2 Incl. Bid volume Gatt IgG-dgarese (sigma) columns, with PBS, I and somplies by gravity flow (~ 3 ml/min)  - Wash columns = PBS  - Electe = 3M KSCN (3M in Hear, pH ~ 7.5 condicated).  - Collect 3 fractions of H1305F-571, 4 fractions af CH/129.  - Dialyze fractions 1.5 hr against PBS in micro dialyzer.			.78 m/m/ = 103		
CHIZA  Zhuzhu 26ml@ 1.97 mg/ml = 83 mg  Zhuzhu 26ml@ 4.45 mg/ml = 116 mg  zhuzhu 28ml@ 5.90 mg/ml = 165 mg 275 mg total/86ml  Elizzho 32ml@ 2.93 mg/ml = 94 mg  March 1992  - Poer 2 Ind bid volume Gatt IgG-Agarese (Sigma) Columns, L  with PBS, lead samples by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjested).  - Collect 3 fraction, of H1308F-ST, 4 fractions of CHITA.  - Dialyze fractions 1.5 hr against PBS in miscodiolyzer.	CHITS  2		36ml@ 3	.904.0/ml = 140.		1-1-1/11=
Zhizhu 26ml@ 4.45mg/ml: 116,mg  2/14-2/13 28ml@ 590mg/ml: 165mg 275mg total/86ml  Elizzho 32ml@ 2.93mg/ml: 94,mg  March 1992  - Poer 2 /ml brd volume GaH IgG-Agaress (Sigma) Columns, L  with PBS, load somples by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F-871, 4 fractions of CH1129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.	CHILTY  2 low shu 26ml@ 4.45 mg/ml= 116 mg  2 low-2/13 28ml@ 590 mg/ml= 165 mg 275 mg total/86ml  Elister 32ml@ 293 mg/ml= 94 mg  Yerch 1992  - Poer 2 Ind bid volume Gatt IgG-Agarese (Sigma) Columns to  with PBS, I and somplies by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in Hard, pH -7.5 unedjected).  - Collect 3 fraction, of H1308F-871, 4 fractions of CH/129.  - Dialyze fractions 1.5 hr against PBS in microdialyzer.			97 ug/ml = 83.	29	/ 112 m
Alicely 26ml@ 4.45mg/ml = 116 mg  2/14-2/13 28ml@ 5.90 mg/ml = 165 mg 27.5 mg total/86ml  Electro 32ml@ 2.93 mg/ml = 94 mg  March 1992  - Pour 2 Include Somples by gravity flow (~3ml/min)  - Wash columns = PB5  - Elute = 3M KSCN (3M in H2O, pH ~7.5 unadjusted).  - Collect 3 fractions of H1308F.57/, 4 fractions of CH/129.  - Dialyze fractions 1.5 hr against PB5 in miscodialyzer.	Aluzin 26ml 4.45mg/ml = 116mg  Aluzin 28ml@ 5.90mg/ml = 165mg 375mg total/86ml  iliniate 82ml@ 2.93mg/ml = 94mg  March 1992  - Poer 2 /ml bid volume Galf IgG-Agarose (sigma) Columns to with PBS, load samples by gravity flow (~ 3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H2O, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F-57/ 4 fractions af CH/129.  - Dialyze fractions 1.5 hr against PBS in miccodialyzer.					
All spec 32 ml & 5.90 mplut: 165 mg 275 mg total/86ml  ilitation 32 ml & 2.93 mplut: 94 mg  March 1992  - Pour 2 Ind & 1d volume GOX H IgG-Agarose (5 igms) Columns, I  with PBS, load somplus by gravity flow (~ 3 ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H2O, pH-7.5 unedjusted).  - Collect 3 fraction, of H1308F.571, 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in mice dialyzer.	# 28 ALO 5.90 m/h : 165 mg 375 mg total/86 ml  # site spe 32 ml 2.93 mg/h : 94 mg  - Pour 2 /ml bid volume Gatt IgG-dgarouse (Sigma) Columns Live  with PBS, load somples by gravity flow (~3 ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted).  - Collect 3 fractions of H1308F.57/ 4 fractions at CH/129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.					
Harch 1992  - Pour 2 Inch bid volume Gatt IgG-Agazese (Sigma) Columns; L with PBS, load samples by gravity flow (~ 3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in Hro, pH -7.5 unadjusted).  - Collect 3 fraction, of H1308F-SFL 4 fractions of CH1129.  - Dialyze fractions 1.5 hr against PBS in miscodialyzer.	Yarch 1992 - Poer 2 Inc bid volume Gatt IgG-Agarese (Sigma) Columns I with PBS, load somples by gravity flow (~ 3 ml/min) - Wash columns = PBS - Elute = 3M KSCN (3M in H20, pH-7.5 unadjusted) Collect 3 fractions of H1308F-SFI, 4 fractions of CH/129 Dialyze fractions 1.5 hr against PBS in miscodialyzer.		26ml @ 4.4	5 mg/ml = 116 mg	<del></del>	
March 1992  - Poer 2 Ind bid volume GOH IgG-Agarese (Sigma) Columns I.  with PBS, lead samples by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in HzO, pH ~7.5 unedjected).  - Collect 3 fractions of HI308F-SFL, 4 fractions of CHITT?.  - Dialyze fractions 1.5 hr against PBS in micco dialyzer.	Yarch 1992 - Pour 2 Ind bid volume Gatt IgG-Againese (Sigma) Columns, with PBS, load samples by gravity flow (~ 3 ml/min) - Wash columns = PBS - Elute = 3M KSCN (3M in H, 0, pH = 7.5 unadjusted) Collect 3 fractions of H1308F-SFI, 4 fractions of CH1129 Dialyze fractions 1.5 hr against PBS in micco dialyzer.			Ong/whi 165mg	275 mg £	otal/86ml
- Poer 2 Ind bid volume GOH IgG-Agarose (Sigma) Columns, I.  with PBS, load somples by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in Hoo, pH = 7.5 unadjusted).  - Collect 3 fractions of HI308F-SJI, 4 fractions of CHIIT?.  - Dialyze fractions 1.5 hr against PBS in miccodialyzer.	- Pour 2 Ind bid volume Gat IgG-Agarose (Sigma) Columns, with PBS, load somples by gravity flow (~ 3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H2O, pH = 7.5 unadjusted).  - Collect 3 fractions of H1308F-SFL 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in microdialyzer.	2/17-2/20	32ml@ 2.9	3 mg 1 2 2 Jul gung	<del></del>	
- Poer 2 Ind bid volume GOH IgG-Agarose (Sigma) Columns, I.  with PBS, load somples by gravity flow (~3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in Hoo, pH = 7.5 unadjusted).  - Collect 3 fractions of HI308F-SJI, 4 fractions of CHIIT?.  - Dialyze fractions 1.5 hr against PBS in miccodialyzer.	- Pour 2 Ind bid volume Gat IgG-Agarose (Sigma) Columns, with PBS, load somples by gravity flow (~ 3ml/min)  - Wash columns = PBS  - Elute = 3M KSCN (3M in H2O, pH = 7.5 unadjusted).  - Collect 3 fractions of H1308F-SFL 4 fractions of CH1/29.  - Dialyze fractions 1.5 hr against PBS in microdialyzer.	March 1992	!			
- Wesh columns = PBS  - Elute = 3M KSCN (3M in H, 0, pH = 7.5 unadjusted).  - Collect 3 fractions of HI308F.ST, 4 fractions of CHIIZP.  - Din yze fractions 1.5 hr against PBS in mice dialyzer.	- Wash columns = PBS  - Elute = 319 KSCN (311 in H20, pH-7.5 unadjusted).  - Collect 3 fractions of HI308F-S71, 4 fractions at CHI129.  - Dialyze fractions 1.5 hr against PBS in mice dialyzer.		bed was	God H TaGada	(6.)	
- Wash columns = PBS  - Elute = 3M KSCN (3M in H, 0, pH = 7.5 unadjusted).  - Collect 3 fractions of HI3OSF-SFI, 4 fractions of CHII29.  - Dialyze fractions 1.5 hr against PBS in microdialyzer.	- Wash columns = PBS  - Elute = 3M KSCN (3M in H20, pH-7.5 unodjusted).  - Collect 3 fractions of H1308F-S71, 4 fractions of CH1129.  - Dinlyze fractions 1.5 hr against PBS in mice dialyzer.	with PB	15, load 50	males by ass	isty Clay	: , , , , , ,
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- Collect 3 fractions of HI308F-SH, 4 fractions of CHIIZ?.  - Dialyze fractions 1.5 hr against PBS in micro dialyzer.	- Collect 3 fractions of HI308F.STI, 4 fractions of CHII29.  - Dialyze fractions 1.5 hr against PBS in microdialyzer.	- Wash columns	E PB5			
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- Dialyze fractions 1.5 hr against PBS in micco dialyzer.	- Dialyze fractions 1.5 hr against PBS in miscodialyzer.	- Elute & 3/9	KSCD (3M	in H, O, pH = 7.	5 unadjust sd	<u> </u>
- Dialyze fractions 1.5 hr against PBS in micco dialyzer.	- Dialyze fractions 1.5 hr against PBS in miscodialyzer.	- Collect 3 fra	etion of b	11708E.571 // (		C/// 2
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P' +ct No. ,98 TITLE CHII29 and HI308, 571 Purification Book No. 95 From Page No.___ Scale - SAUFS

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Project No._.98_ TITLE CHILLY and Al. 8F.571 Perification Book No._____ n Page No.___ March 1992 CH1129 H1308F.571 Colemn Sample 4.8 mg/ml × 86ml = 413 mg (100%) 3.3 mg/ml = 115ml = 380mg (100%) Flow They mg/ml ×86 ml = 78 mg (1976) 0.66 mg/ml x115ml: 80 mg (21%) 23.4 ug/ml × 1.8 1 = 42 17. 8 mg/ml × 1.5 ml . 27 mg (72) 13 7 mg/ml = 1.5ml = 21 mg (62 9.4 mg/ml × 2 ml = 19 mg (5%) PBS 3hr Vialvae of HISO8F-871: pool freetians 2+3; dialys 999195 + ZKPBS March 1992 March 1992 ELIST (1.50- 1.100) CH1129: 9.2 mg/ml x God = 55.2 H1308F.371: 13.8 mg/ml * 3.5 ml = 48.3 SApril 1992 Confirmatory ELISY: T Page No. n ss d & Und rst d by m, Date Hay nt d by

Project No. -57.98 TITLE MAG Western: 69, 43, 98-6, CHII29, HIZ9, HIZOSF. 57 MAG Western n Page No. 1 1992 Transfer a. Sing Back MXb. to a clean microfuge tabe 694 ( ASTIOG/107 #2, 4.6.92 447 (44713 4.6.92 1992 Spin rells decort, resuspendin 0.5ml 11 6- Ster Boil 101 Load 25 ml onto Daichi 4-20% gradient

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Project No TITLE 1308F/(05 9, 191 X fretion 6 9/13/91 xfortion, 9/16-9/20 Supe Guantitation om Page No._ 20 Saptember 1991 Ig ( and OSPS Ig 6 standards Run assay . - standard corve calculation via softmax software. Cos samples, TISO's, serded 9/16/9/; pooled: Sample Ig Gi %A NS/FBS 5:566-FBS 173 ng lool 359 ng/wl 75% 137% 140% 237 juglial SJ66- NS 501 ng/ml 114% 5560/61-FBS 283 ng/ml 141 ng/ml 101% 120% 118% S J60/61 NS 340 ng/ul 167 ng/al 104% 1308 Production SJ66: SJEC/61 Note: Ploo's were strape and serded into Tiso' I a G 9/16/91; cells had low 123% 14770 142% and were not very drast producing more 1308F in 1076 LS 1 han in 10% F transfection (Secrits) the STEE gives higher production than the cotransfected STED and STEP. This could due to unequal amounts of SJEC and SJEI in the cells. of the barriers T Page No Nitnessed & Understood by me, Date Date 9/20/9/ Invented by

Pro No. 198 ITLE 1308F COS 9/15/91 Transfertion Book No. 95 From Page No._ 9/13/91 CosTransfertion: ELISA 9/27 -7 9/30 Sopus 30 September 1991 Dilute IgGI and IgG standards (long/al starts from Mock FBS 5566 NS 5566 FBS SJ6/61 NS 5560/11 FBS Results sheet --- mis dileted first sit endered 110 (lugla 5/op+ = 1007 Correlation Coefficient = .997 Correlation Coefficient = .991 T Pag No Invented by Witnessed & Understood by m , Date Date

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	· . 1L 1:1	lifetion = .189/4 = .135 mg/ml =	135 M
- mount, and un protectional and units		·	:
		1.156:11	
		g 6 = 1.35 mg lowl	
		16: 1.35 mg hal	
	Stock I		
	Stock I	Tube @ 1.35 mg/ml IgGI, K	
	Stock I	Tube @ 1.35 mg/ml IgGI, K	
	Stock I	Tube @ 1.35 mg/ml IgGI, K	<b>)</b>
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	Stock I	Tube @ 1.35 mg/ml IgGI, K	
	Stock I	Tube @ 1.35 mg/ml Ig G-1, K.	
	Stock I	Tube @ 1.35 mg/ml Ig G-1, K.	
	Stock I	Tube @ 1.35 mg/ml Ig GI, K	
	Stock I	Tube @ 1.35 mg/ml Ig GI, K	